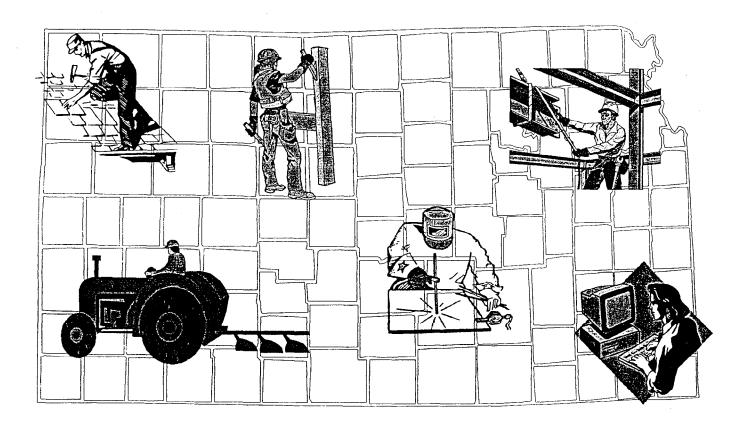
OCCUPATIONAL INJURIES & ILLNESSES KANSAS, 1997



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OCCUPATIONAL INJURIES & ILLNESSES KANSAS, 1997

Bill Graves, Governor

Clyde D. Graeber, Secretary Kansas Department of Health and Environment



Prepared by
Kansas Department of Health and Environment
Center for Health and Environmental Statistics
Office of Health Care Information

In cooperation with the U.S. Department of Labor Bureau of Labor Statistics

December, 1999

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Introduction

The Occupational Safety and Health Act of 1970 became an official part of the national labor law effective April 28, 1971. The act's fundamental objective is "... to assure so far as possible every working man and woman in the Nation safe and healthful working conditions and to preserve our human resources." In order to fulfill this purpose, the Kansas Department of Health and Environment and the U.S. Department of Labor, Bureau of Labor Statistics, through a cooperative program, collect and analyze occupational injury and illness statistics in Kansas.

The 1997 survey of 3,677 private employers in Kansas serves as the basis for the estimates of occupational injuries and illnesses presented in this report. Survey results are used in measuring and evaluating the effectiveness of the Occupational Safety and Health Act in reducing work-related injuries and illnesses. Year to year comparisons of estimated incidence rates indicate basic industry trends and where prevention measures should be intensified. The rates contained in this report represent the number of injury and illness cases per 100 full-time workers and enable employers to compare the experience of their establishments to the entire industry. Further explanation of the scope of this report and the methodology used can be found in Appendix A.

Copies of this report as well as additional information may be obtained by contacting the Kansas Department of Health and Environment, Office of Health Care Information, 900 SW Jackson, Room 1002 N, Topeka, KS, 66612-1290, (785) 296-1058.

The information contained in this report may be obtained electronically by contacting the Kansas Department of Health and Environment, Center for Health and Environmental Statistics, Office of Health Care Information (785-296-5642). This report is also available on the Internet at the KDHE home page on the World Wide Web. The address is: "http://www.ink.org/public/kdhe". National data on occupational injuries and illnesses is available on the Internet at the Bureau of Labor Statistics' (BLS) home page. That address is: "http://www.bls.gov".

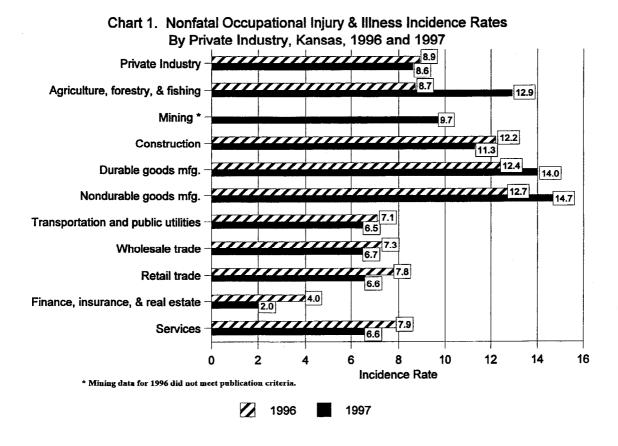
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Part I

1997 Survey Highlights

1997 SURVEY HIGHLIGHTS

- The 1997 injury and illness incidence rate for private industry in Kansas was 8.6 per 100 full time workers, slightly lower than the rate of 8.9 reported in 1996. All but two major industry divisions reported lower rates in 1997 than in 1996. Agriculture and manufacturing, both durable and nondurable, reported higher rates in 1997. (Chart 1)
- The largest decrease in the rate of occupational injuries and illnesses occurred in the finance, insurance, & real estate industry which decreased 50% from a rate of 4.0 injuries and illnesses per 100 full-time workers in 1996 to 2.0 in 1997. (Chart 1)
- The industry with the greatest increase was agriculture, forestry & fishing which increased 48.3% from 8.7 injuries and illnesses per 100 full-time workers in 1996 to a rate of 12.9 in 1997. (Chart 1)



• When manufacturing is divided into two categories (durable and nondurable goods), they ranked first and second in highest incidence rates in 1997. Nondurable goods manufacturing, with a rate of 14.7 injuries and illnesses per 100 full-time workers was first while durable good manufacturing with a rate of 14.0 was second. (Chart 1, Table 1)

- Meat packing plants had the highest incidence rate within the nondurable goods manufacturing division, with a rate of 26.9 injuries and illnesses per 100 full-time workers. (Table 6)
- Within durable goods manufacturing, primary metal industries led all others with a rate of 20.1 injuries and illnesses per 100 full-time workers. (Table 6)
- Agriculture, forestry & fishing had the third highest rate with 12.9 injuries and illness per 100 full-time workers. In Kansas, agricultural production comprises most of this industry. Agricultural production, as a category, had a rate of 18.1 injuries and illnesses per 100 full-time workers in 1997. (Chart 1, Table 1, Table 6)
- Construction industries had the fourth highest rate with 11.3 injuries and illness per 100 full-time workers. (Chart 1, Table 1)
- Plumbing, heating & air conditioning contractors had the leading rate in the construction industry with a rate of 15.0 injuries and illness per 100 full-time workers. (Table 6)
- Wholesale trade, retail trade, and transportation & public utilities had nearly identical rates of 6.7, 6.6, and 6.5 injuries and illnesses per 100 full-time workers respectively in 1997. (Chart 1)
- As would be expected, the low risk industries of finance, insurance, and real estate had the lowest rate with 2.0 injuries and illnesses per 100 full-time workers in 1997. (Chart 1, Table 1)

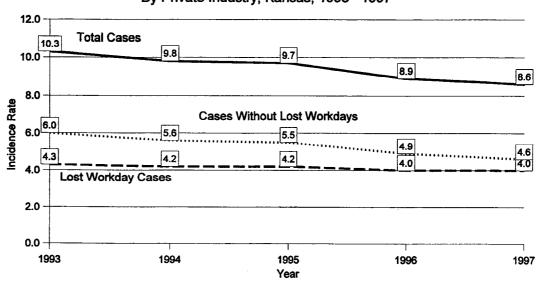


Chart 2. Nonfatal Occupational Injury and Illness Incidence Rates By Private Industry, Kansas, 1993 - 1997

- The occupational injury and illness incidence rates per 100 full-time workers for private industry in Kansas have declined slightly each year over the past five years, ranging from 10.3 in 1993 to 8.6 in 1997. These incidence rates include all cases, both with and without lost workdays. (Chart 2, Table 3)
- The incidence rates for lost workday cases (those having days away from work and/or days of restricted work activity) have remained the most stable declining from 4.3 in 1993 to 4.0 in 1996 and 1997. (Chart 2, Table 3)
- The incidence rates for cases without lost workdays (recordable cases that did not result in days away from work or restricted work activity) have declined from 6.0 in 1993 to 4.6 in 1997. (Chart 2, Table 3)

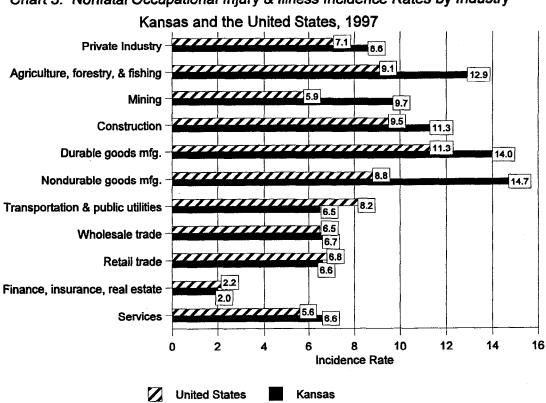


Chart 3. Nonfatal Occupational Injury & Illness Incidence Rates by Industry

- The Kansas rate of 8.6 injuries and illness per 100 full-time workers was 21% higher than the U.S. rate of 7.1. (Chart 3, Table 4)
- Kansas had a significantly lower incidence rate than the nation in only one industry, transportation and public utilities, which was 20.7% lower. In two other industries, retail trade and finance, insurance, and real estate, Kansas had slightly lower incidence rates than the U.S. In all other industries, Kansas had a higher incidence of work-related injuries and illnesses than did the country as a whole. (Chart 3, Table 4)

- The largest discrepancy between Kansas and the U.S. was a 67% higher incidence rate in nondurable goods manufacturing of 14.7 for Kansas compared to the U.S. rate of 8.8 injuries and illnesses per 100 full-time workers. This is followed closely by the 64.4% higher rate for the mining industry with 9.7 injuries and illnesses per 100 full-time workers in Kansas compared to 5.9 in the U.S. (Chart 3, Table 4)
- Other large differences include a 41.8% higher rate in the agriculture, forestry & fishing industry of 12.9 compared to the U.S. rate of 9.1 and a 23.9% higher rate in durable goods manufacturing of 14.0 compared to 11.3 for the U.S., and an 18.9% higher rate in the construction industry in Kansas which had a rate of 11.3 injuries and illnesses per 100 full-time workers compared to 9.5 in the U.S. (Chart 3, Table 4)

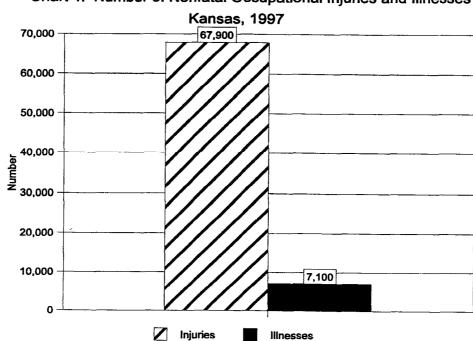
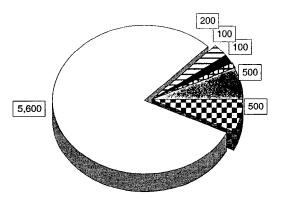


Chart 4. Number of Nonfatal Occupational Injuries and Illnesses

- In 1997 there were 67,900 occupational injuries and 7,100 occupational illnesses that occurred in Kansas. The number of occupational injury and illness cases ranged from 800 in the mining industry to 30,100 in manufacturing. (Chart 4, Table 2)
- Of the 7,100 occupational illness cases in 1997, 5,600 (79%) were disorders associated with repeated trauma. (Chart 5, Table 9)

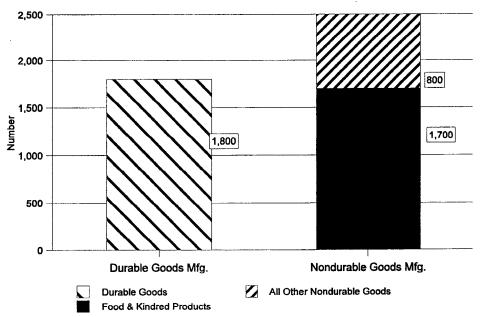
Chart 5. Number of Nonfatal Occupational Illnesses By Type of Illness, Kansas, 1997



Skin diseases or disorders

Respiratory conditions due to toxic agents
Poisoning
Disorders due to physical agents
Disorders associated with repeated trauma
All other occupational illnesses

Chart 6. Number of Nonfatal Occupational Illnesses in Manufacturing Due to Disorders Associated With Repeated Trauma, Kansas, 1997



Over three-fourths (77%) of the disorders associated with repeated trauma illnesses occurred in the manufacturing industry. Nondurable goods manufacturing accounted for the majority with 2,500 of these illness cases while durable goods manufacturing was responsible for 1,800 of these illness cases. (Chart 6, Table 9)

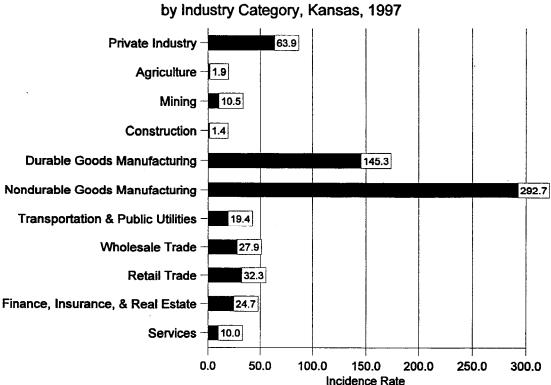
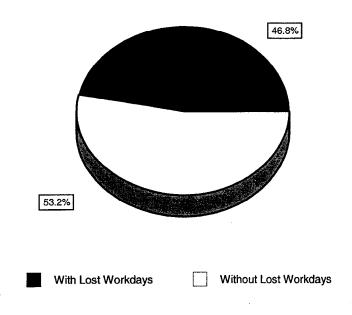


Chart 7. Incidence Rates for Disorders Associated with Repeated Trauma

- Private industry in Kansas in 1997 had an occupational illness incidence rate of 81.1 illnesses per 10,000 workers. The illness category with the highest rate was disorders associated with repeated trauma with a rate of 63.9. Repetitive trauma includes carpal tunnel syndrome, the most common occupational illness. Repetitive motion such as grasping tools, scanning groceries, and typing are some examples of the kind of work than can result in an occupational illness associated with repeated trauma. (Chart 7)
- Manufacturing had by far the highest incidence rate of the repetitive trauma cases of all industries with a rate of 204.8 per 10,000 full-time workers. Within manufacturing, food and kindred products had by far the highest incidence rate of 504.2. The high incidence rate in this industry is due to the frequency of repetitive trauma illnesses in the meat packing industry. (Chart 7, Table 8)

Nearly half (46.8%) of the occupational injuries and illnesses in Kansas were serious enough to cause lost workdays in 1997. This was up slightly from 44.4% in 1996. Lost workdays includes days away from work and/or days of restricted work activity. Of the 75,000 injuries and illness cases, 18,500 (24.7%) resulted in days away from work, 16,600 (22.1%) required restrictions in work activity but no days away from work, and 39,900 (53.2%) were cases without lost workdays. (Chart 8, Chart 9, Table 2)

Chart 8. Nonfatal Occupational Injuries & Illnesses By Occurrence of Lost Workdays, Kansas, 1997



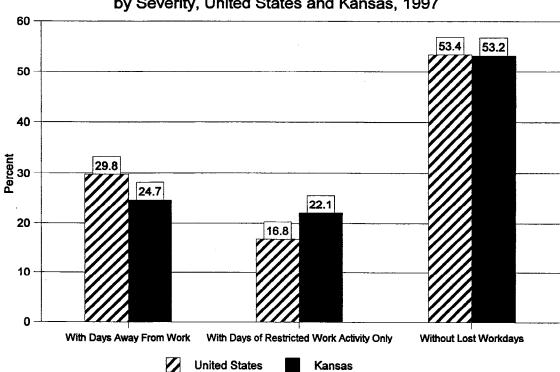


Chart 9. Percent of Nonfatal Occupational Injuries & Illnesses by Severity, United States and Kansas, 1997

• Kansas workers experienced a smaller percentage of injuries and illnesses resulting in days away from work than did the nations workers as a whole and a higher percentage of injuries and illnesses requiring work restrictions. This may due to Kansas having fewer severe injuries and illnesses than did the nation, or from employers in Kansas doing a better job accommodating workers who have suffered workplace injuries or illnesses. (Chart 9)

TABLE 1. Incidence rates1 of nonfatal occupational injuries and illnesses by selected industries and case types, 1997

	SIC code ³ employ-ment ⁴ (000's) 1,017.7 8.6 4.0 1,017.7 8.6 4.0 14.4 12.9 6.7 8.2 9.7 6.2 59.0 11.3 5.3 15 13.0 10.6 4.4 16 10.8 11.5 5.2 17 35.2 11.5 5.6 206.7 14.3 6.8 121.2 14.0 6.2 33 4.1 20.1 5.4 35 24.0 13.3 5.5 36 8.6 8.1 3.5 37 55.2 14.6 7.1 20 32.6 20.9 12.2 27 23.2 6.2 3.5 28 6.5 7.0 2.4 65.3 6.5 3.7 310.1 6.7 2.9 76.4 6.7 3.2 233.7 6.6 2.8 53 32.0 7.7 3.8 54 35.1 6.0 2.4					es and illnesses			Injuries				
	010	Annual			- 1	Cases		Lost w	,	Cases			
Industry ²		employ- ment ⁴		Total ⁵	With days away from work ⁶	without lost work- days	Total cases	Total ⁵	With days away from work ⁶	without lost work- days			
Private industry ⁷		1,017.7	8.6	4.0	2.1	4.6	7.8	3.6	2.0	4.2			
Agriculture, forestry, and fishing ⁷		14.4	12.9	6.7	5.3	6.2	12.7	6.7	5.3	6.0			
Mining ⁸		8.2	9.7	6.2	4.7	3.5	9.5	6.1	4.6	3.5			
Construction General building contractors Heavy construction, except building Special trade contractors	16	13.0 10.8	10.6 11.5	4.4 5.2	4.0 2.9 3.5 4.5	6.1 6.2 6.3 5.9	11.1 10.5 11.0 11.4	5.2 4.3 5.2 5.5	3.9 2.9 3.5 4.4	5.9 6.2 5.8 5.9			
Manufacturing	•	206.7	14.3	6.8	2.5	7.5	11.8	5.4	2.2	6.4			
Durable goods	35 36	4.1 24.0 8.6	20.1 13.3 8.1	5.4 5.5 3.5	2.3 2.3 2.6 1.0 2.0	7.9 14.8 7.8 4.6 7.5	12.1 18.5 12.3 5.9 11.9	5.1 4.8 5.1 2.5 5.4	2.1 2.1 2.4 .8 1.7	7.0 13.7 7.1 3.4 6.6			
Nondurable goods Food and kindred products Printing and publishing Chemicals and allied products	27	32.6 23.2	20.9 6.2	12.2 3.5	2.8 3.1 1.4 1.5	6.9 8.7 2.8 4.6	11.4 15.0 5.1 5.8	5.9 8.6 2.7 2.0	2.3 2.6 1.2 1.4	5.5 6.4 2.4 3.8			
Transportation and public utilities ⁸		65.3	6.5	3.7	2.5	2.8	6.2	3.6	2.4	2.6			
Wholesale and retail trade		310.1	6.7	2.9	1.6	3.8	6.3	2.7	1.5	3.7			
Wholesale trade		76.4	6.7	3.2	2.0	3.6	6.4	2.9	1.8	3.5			
Retail trade		32.0	7.7	3.8	1.3 2.2 1.3	3.9 4.0 3.6	6.3 7.7 5.9	2.5 3.8 2.4	1.3 2.2 1.3	3.8 3.9 3.5			
Finance, insurance, and real estate		60.0	2.0	.8	.7	1.1	1.7	.8	.6	.9			
Services Hotels and other lodging places Health services	70 80	294.1 10.0 102.7	6.6 7.7 9.3	3.0 2.8 4.4	1.9 1.5 3.1	3.7 4.9 4.8	6.4 7.7 9.1	2.9 2.7 4.4	1.9 1.5 3.1	3.5 4.9 4.7			

¹ The incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000, where

= number of injuries and illnesses EΗ

= total hours worked by all employees during

the calendar year

200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

work activity, or both.

Excludes farms with fewer than 11 employees.

NOTE: Because of rounding, components may not add to totals.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies

Totals include data for industries not shown separately.

Standard Industrial Classification Manual, 1987 Edition.

⁴ Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program. Employment in private households (SIC 88) is excluded.

Total lost workday cases involve days away from work, or days of restricted

⁶ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

Bata conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

TABLE 2. Number of nonfatal occupational injuries and illnesses by selected industries and case types, 1997

(thousands)

			In	juries an	d illnesse	es		Inju	ries	
	910	1997 Annual		Lost w	orkday ses	Cases			orkday ses	Cases
Industry ¹	SIC code ²	average employ- ment ³	Total cases	Total ⁴	With days away from work ⁵	without lost work- days	Total cases	Total ⁴	With days away from work ⁵	without lost work- days
Private industry ⁶		1,017.7	75.0	35.1	18.5	39.9	68.0	31.2	17.4	36.7
Agriculture, forestry, and fishing ⁶		14.4	1.4	.7	.6	.7	1.4	.7	.6	.6
Mining ⁷		8.2	.8	.5	.4	.3	.8	.5	.4	.3
Construction General building contractors Heavy construction, except building Special trade contractors	15	59.0 13.0 10.8 35.2	6.3 1.2 1.3 3.8	2.9 .5 .6 1.8	2.2 .3 .4 1.5	3.4 .7 .7 1.9	6.2 1.2 1.3 3.7	2.9 .5 .6 1.8	2.2 .3 .4 1.5	3.3 .7 .7 1.9
Manufacturing		206.7	30.1	14.4	5.3	15.7	24.8	11.4	4.6	13.3
Durable goods	33	121.2 4.1 24.0 8.6 55.2	17.6 .8 3.3 .7 8.4	7.7 .2 1.4 .3 4.1	2.9 .1 .6 .1 1.1	9.8 .6 1.9 .4 4.3	15.1 .8 3.1 .5 6.9	6.4 .2 1.3 .2 3.1	2.6 .1 .6 .1	8.7 .6 1.8 .3 3.8
Nondurable goods		85.4 32.6 23.2 6.5	12.5 7.1 1.3 .5	6.6 4.2 .7 .2	2.3 1.1 .3 .1	5.9 3.0 .6 .3	9.6 5.1 1.1 .4	5.0 2.9 .6 .1	2.0 .9 .3 .1	4.6 2.2 .5 .3
Transportation and public utilities ⁷		65.3	4.3	2.5	1.6	1.8	4.1	2.4	1.6	1.7
Wholesale and retail trade		310.1	16.6	7.2	3.9	9.4	15.8	6.6	3.7	9.2
Wholesale trade		76.4	5.2	2.5	1.6	2.8	5.0	2.3	1.4	2.7
Retail trade	53 54	233.7 32.0 35.1	11.4 1.7 1.5	4.8 .8 .6	2.3 .5 .3	6.6 .9 .9	10.8 1.7 1.4	4.4 .8 .6	2.2 .5 .3	6.5 .9 .9
Finance, insurance, and real estate		60.0	1.0	.4	.3	.6	.9	.4	.3	.5
Services	70 80	294.1 10.0 102.7	14.5 .5 7.6	6.5 .2 3.6	4.2 .1 2.6	8.0 .3 4.0	14.0 .5 7.5	6.3 .2 3.6	4.1 .1 2.6	7.8 .3 3.9

¹ Totals include data for industries not shown separately.

nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies

² Standard Industrial Classification Manual, 1987 Edition. Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program. Employment in private households (SIC 88) is excluded.

⁴ Total lost workday cases involve days away from work, or days of restricted

Total lost workday cases involve days away from work, or days or restricted work activity, or both.

5 Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

6 Excludes farms with fewer than 11 employees.

7 Data conforming to OSHA definitions for mining operators in coal, metal, and

Table 3

Nonfatal Occupational Injury and Illness Incidence Rates per 100 Full-Time Workers, 1/ by Industry Division
Kansas, 1993-1997

						Lost workday														
Industry division			tal Cas					Total 2						from wo					t worke	
	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997
Private industry 4/	10.3	9.8	9.7	8.9	8.6	4.3	4.2	4.2	4.0	4.0	3.0	2.7	2.5	2.2	2.1	6.0	5.6	5.5	4.9	4.6
Agriculture, forestry, and fishing 4/	11.5	11.3	7.1	8.7	12.9	5.0	4.7	3.8	3.0	6.7	4.2	3.9	3.2	2.8	5.3	6.5	6.6	3.3	5.7	6.2
Mining 5/	10.3	9.5	8.8	•	9.7	5.1	5.9	4.6	•	6.2	4.6	5.4	4.1	-	4.7	5.2	3.6	4.2	-	3.5
Construction	15.4	13.5	11.7	12.2	11.3	6.8	6.1	4.7	5.8	5.3	6.0	5.3	3.7	4.7	4.0	8.6	7.4	7.0	6.3	6.1
Manufacturing	15.7	14.6	14.2	12.5	14.3	6.5	6.7	6.7	5.8	6.8	3.4	3.1	2.9	2.3	2.5	9.3	7.9	7.5	6.7	7.5
Durable goods	14.6	13.9	12.6	12.4	14.0	5.1	5.4	5.0	5.2	6.2	3.2	3.1	2.6	2.4	2.3	9.5	8.5	7.6	7.1	7.9
Nondurable goods	17.2	15.5	16.4	12.7	14.7	8.3	8.2	8.9	6.6	7.8	3.7	3.1	3.3	2.2	2.8	8.9	7.2	7.5	6.1	6.9
Transportation and public utilities 5/	10.9	8.5	9.2	7.1	6.5	5 .9	5.0	4.8	3.6	3.7	4.6	3.5	2.9	2.2	2.5	5.0	3.6	4.3	3.6	2.8
Wholesale and retail trade	9.2	8,2	8.8	7.6	6.7	3.9	3.0	3.6	3.5	2.9	2.9	2.3	2.4	2.0	1.6	5.3	5.2	5.2	4.2	3.8
Wholesale trade	8.6	9.1	8.5	7.3	6.7	3.9	3.7	3.6	3.6	3.2	2.9	2.7	2.4	1.7	2.0	4.7	5.4	4.8	3.8	3.6
Retail trade	9.4	7.8	8.9	7.8	6.6	3.8	2.7	3.5	3.4	2.8	2.9	2.2	2.3	2.1	1.3	5.6	5.1	5.4	4.3	3.9
Finance, insurance, and real estate	2.8	2.5	2.8	4.0	2.0	1.0	1.0	1.2	1.1	0.8	0.8	0.7	0.7	0.9	0.7	1.8	1.5	1.6	2.8	1.1
Services	. 7.3	8.4	8.0	7.9	6.6	2.7	3.1	3.1	3.2	3.0	2.1	2.2	2.1	2.0	1.9	4.6	5.4	4.9	4.8	3.7

^{1/} The incidence rates represent the number of injuries and/or illnesses per 100 full-time equivalent employees and were calculated as: (N/EH) x 200,000, where:

N = number of injuries and or illnesses

total hours worked by all employees during the calendar year

200,000 = base for 100 full-time workers (working 40 hours per week, 50 weeks per year)

2/ Total includes cases involving restricted work activity only in addition to days-away-from-work cases with or without restricted work activity.

3/ Days away-from-work cases include those which result in days away from work with or without restricted work activity.

4/Excludes farms with fewer than 11 employees.

5/ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

6/ In 1996, air courier operations previously classified in Industry Group 421, 422, 423, 452, 473, 478 were reclassified to Industry Group 451. As a result, the 1996 estimates for the SIC's and M Industry Groups 42, 45, and 47 are not comparable to those for prior years. In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior year

Note: Because of rounding, components may not add to the totals.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies.

Table 4

Nonfatal Occupational Injury and Illness Incidence Rates per 100 Full-Time Workers 1/ by Industry Division

Kansas and the United States, 1996 and 1997

		Total c	ases 3/		Total	lost wo	rkday c	ases	Cases without lost workdays					
Industry division 2/	Kar	sas	U	S	Kar	sas	U	S	Kansas		U	S		
	1996	1997	1996	1997	1996	1997	1996	1997	1996	1997	1996	1997		
Private industry 4/	8.9	8.6	7.4	7.1	4.0	4.0	3.4	3.3	4.9	4.6	4.1	3.8		
Agriculture, forestry, and fishing 4/	8.7	12.9	8.7	8.4	3.0	6.7	3.9	4.1	5.7	6.2	4.8	4.2		
Mining		9.7	5.4	5.9		6.2	3.2	3.7		3.5	2.2	2.1		
Construction	12.2	11.3	9.9	9.5	5.8	5.3	4.5	4.4	6.3	6.1	5.4	5.0		
Manufacturing	12.5	14.3	10.6	10.3	5.8	6.8	4.9	4.8	6.7	7.5	5.7	5.4		
Durable goods	12.4	14.0	11.6	11.3	5.2	6.2	5.1	5.1	7.1	7.9	6.5	6.2		
Nondurable goods	12.7	14.7	9.2	8.8	6.6	7.8	4.6	4.4	6.1	6.9	4.6	4.3		
Transportation and public utilities 5/	7.1	6.5	8.7	8.2	3.6	3.7	5.1	4.8	3.6	2.8	3.6	3.4		
Wholesale and retail trade	7.6	6.7	6.8	6.7	3.5	2.9	2.9	3.0	4.2	3.8	3.9	3.7		
Wholesale trade	7.3	6.7	6.6	6.5	3.6	3.2	3.4	3.2	3.8	3.6	3.3	3.3		
Retail trade	7.8	6.6	6.9	6.8	3.4	2.8	2.8	2.9	4.3	3.9	4.1	3.9		
Finance, insurance, and real estate	4.0	2.0	2.4	2.2	1.1	0.8	0.9	0.9	2.8	1.1	1.4	1.4		
Services	7.9	6.6	6.0	5.6	3.2	3.0	2.6	2.5	4.8	3.7	3.4	3.1		

1/The incidence rates represent the number of injuries and/or illnesses or lost workdays per 100 full-time employees and were calculated as: (N/EH) x 200,000, where:

N = number of injuries and/or illnesses, or lost workdays;

EH = total hours worked by all employees during the calendar year;

200,000 = base for 100 full-time workers (working 40 hours per week, 50 weeks per year).

2/Industry divisions and group totals include data for industries not shown separately.

3/Includes fatalities; however, due to rounding, the difference between the total and the sum of the rates for total lost workday cases without lost workdays may not reflect the fatality rate.

4/Excludes farms with fewer than 11 employees.

5/ In 1996, air courier operations previously classified in Industry Group 421, 422, 423, 452, 473, and 478 were reclassified tp Industry Group 451. As a result, the 1996 estimates for the SIC's and Major Industry Groups 42, 45, and 47 are not comparable to those for prior years. In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior years.

Table 5
Nonfatal Occupational Injury and Illness Incidence Rates per 100 Full-Time Workers 1/
Kansas, 1976 - 1997

		Injuries a	ind Illnesses			ı	njuries	
1		Lost Wo	rkday Cases			Lost Wo	rkday Cases	
1								!
			With	Cases			With	Cases
	Total		days away	without lost	Total		days away	without lost
Year	Cases	Total 3/	from work 4/	workdays	Cases	Total 3/	from work 4/	workdays
		_						
1976	8.4	3.3	3.1	5.2	8.1	3.1	3.0	5.0
1977	8.5	3.5	3.3	5.0	8.1	3.3	3.2	4.8
1978 5/	8.8	3.8	3.5	5.0	8.5	3.7	3.5	4.8
1979 5/	8.6	4.0	3.6	4.7	8.4	3.8	3.5	4.5
1980	8.1	3.6	3.3	4.5	7.9	3.5	3.2	4.4
1981	8.4	3.7	3.3	4.7	8.1	3.6	3.3	4.5
1982	7.5	3.1	2.8	4.3	7.2	3.0	2.7	4.2
1983 5/	7.5	3.3	2.9	4.3	7.3	3.1	2.8	4.1
1984 5/	7.7	3.4	3.0	4.2	7.4	3.3	2.9	4.1
1985	7.7	3.4	3.0	4.3	7.5	3.3	2.9	4.2
1986	7.6	3.3	2.9	4.3	7.3	3.1	2.8	4.1
1987	8.6	3.8	3.1	4.8	8.2	3.6	3.0	4.6
1988	9.5	4.0	3.2	5.5	9.0	3.8	3.1	5.2
1989	10.0	4.3	3.4	5.7	9.4	4.1	3.2	5.3
1990	9.9	4.2	3.3	5.7	9.1	3.8	3.1	5.2
1991	9.8	4.3	3.3	5.5	8.9	3.9	3.1	5.0
1992 6/	10.2	4.3	3.1	5.9	9.1	3.8	2.8	5.3
1993 6/	10.3	4.3	3.0	6.0	9.3	3.9	2.8	5.4
1994 6/	9.8	4.2	2.7	5.6	8.9	3.7	2.5	5.2
1995 6/	9.7	4.2	2.5	5.5	8.8	3.7	2.3	5.0
1996 6/	8.9	4.0	2.2	4.9	8.2	3.6	2.1	4.6
1997 6/	8.6	4.0	2.1	4.6	7.8	3.6	2.0	4.2

1/The incidence rates represent the number of injuries and/or illnesses per 100 full-time equivalent employees and were calculated as: (N/EH) x 200,000, where:

Ν

= number of injuries and/or illnesses, or

lost workdays:

EH

=total hours worked by all employees

during calendar year;

200,000

= base for 100 full-time workers

(working 40 hours per week, 50 weeks per year).

2/ Data for 1976-1987 are bases on the Standard Industrial Classification Manual, 1972 Edition; and data for 1988-1996 are bases on the Standard Industrial Classification, Manual, 1987 Edition.

3/ Total includes cases involving restricted work activity only in addition to days-away-from-work cases with or without restricted work activity.

4/ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

5/ To maintain historical comparability with the rest of the series, data for small nonfarm employers in low-risk industries who were not surveyed were imputed and included in the survey estimates.

6/ Data exclude fatal work-related injuries and illnesses.

NOTE: Because of rounding, components may not add to the totals. Data exclude farms with fewer than 11 employees.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies.

TABLE 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 1997

		Kansas								
			In	ijuries an	d illness	es		Inju	ıries	
		1997 Annual		Lost w	orkday ses	Cases		l .	orkday ses	Case
Industry ²	SIC code ³	average employ- ment ⁴ (000's)	Total cases	Total ⁵	With days away from work ⁶	without lost work- days	Total cases	Total ⁵	With days away from work ⁶	withou lost work- days
Private industry ⁷		1,017.7	8.6	4.0	2.1	4.6	7.8	3.6	2.0	4.
Agriculture, forestry, and fishing ⁷		14.4	12.9	6.7	5.3	6.2	12.7	6.7	5.3	6.
Agricultural production ⁷	01-02	7.0	18.1	11.3	8.7	6.8	18.1	11.3	8.7	6
Mining ⁸ Oil and gas extraction Oil and gas field services	13 138	8.2 6.8 3.7	9.7 10.4 15.4	6.2 6.8 10.3	4.7 5.1 7.6	3.5 3.6 5.1	9.5 10.3 15.2	6.1 6.7 10.1	4.6 5.1 7.4	3 3 5
Construction General building contractors Nonresidential building construction Heavy construction, except building Heavy construction, except highway Special trade contractors Plumbing, heating, air-conditioning Electrical work Masonry, stonework, and plastering Miscellaneous special trade contractors	15 154 16 162 17 171 173 174	59.0 13.0 6.9 10.8 7.1 35.2 7.7 5.7 3.8 5.8	11.3 10.6 10.2 11.5 12.4 11.5 15.0 12.2 8.3 11.7	5.3 4.4 4.6 5.2 6.3 5.6 6.4 4.1 5.7 5.3	4.0 2.9 2.8 3.5 4.4 4.5 5.5 3.3 4.8 3.8	6.1 6.2 5.6 6.3 6.1 5.9 8.7 8.1 2.6 6.4	11.1 10.5 10.2 11.0 12.1 11.4 14.7 12.0 8.1 11.7	5.2 4.3 4.6 5.2 6.3 5.5 6.1 4.1 5.5	3.9 2.9 2.8 3.5 4.4 4.4 5.2 3.3 4.6 3.8	5 6 5 5 5 8 8 2
Manufacturing		206.7	14.3	6.8	2.5	7.5	11.8	5.4	2.2	6
Durable goods Stone, clay, and glass products Primary metal industries Industrial machinery and equipment Farm and garden machinery Farm machinery and equipment Lawn and garden equipment Construction and related machinery Industrial machinery, n.e.c. Electronic and other electric equipment Transportation equipment Aircraft and parts	32 33 35 352 3523 3524 353 359 36 37 372	121.2 6.0 4.1 24.0 5.9 5.5 .4 4.2 3.6 8.6 55.2 44.7	14.0 18.3 20.1 13.3 16.2 16.6 9.4 16.0 14.2 8.1 14.6	6.2 8.3 5.4 5.5 7.9 8.3 3.4 5.1 4.4 3.5 7.1 7.2	2.3 3.5 2.3 2.6 3.6 3.4 2.7 2.6 1.0 2.0	7.9 10.0 14.8 7.8 8.2 8.4 6.0 10.9 9.8 4.6 7.5 6.3	12.1 16.1 18.5 12.3 15.8 16.3 8.9 15.1 12.7 5.9 11.9	5.1 8.2 4.8 5.1 7.9 8.3 3.4 4.5 4.1 2.5 5.4	2.1 3.4 2.1 2.4 3.6 3.6 3.4 2.2 2.4 8 1.7	7. 7. 13. 7. 7. 8. 5. 10. 8. 3. 6. 5.
Nondurable goods Food and kindred products Meat products Meat packing plants Grain mill products Paper and allied products Printing and publishing Newspapers Commercial printing Commercial printing, lithographic Commercial printing, gravure Commercial printing, n.e.c. Chemicals and allied products Rubber and miscellaneous plastics	20 201 2011 204 26 27 271 275 2755 2752 2754 2759 28	85.4 32.6 18.6 15.7 4.3 5.0 23.2 4.4 7.6 3.9	14.7 20.9 25.6 26.9 15.4 15.0 6.2 4.3 7.1 7.7 3.7 6.6 7.0	7.8 12.2 14.1 14.5 10.6 9.2 3.5 1.5 3.4 4.1 (⁹) 2.9 2.4	2.8 3.1 3.0 3.1 3.5 3.0 1.4 1.1 1.5 1.7 (°) 1.4 1.5	6.9 8.7 11.5 12.3 4.9 5.8 2.8 2.8 3.6 3.6 3.7 4.6	11.4 15.0 16.1 16.7 14.8 12.1 5.1 3.8 6.3 6.9 3.7 5.8	5.9 8.6 8.3 8.5 10.4 8.1 2.7 1.4 3.1 3.7 (°) 2.4 2.0	2.3 2.6 2.3 2.4 3.5 2.7 1.2 1.0 1.3 1.4 (⁹)	5. 6. 7. 8. 4. 2. 2. 3. 3. 3.
products	30 308	12.2 8.4	15.9 18.9	7.0 8.0	4.0 5.0	8.9 10.9	13.8 15.9	5.9 6.4	3.2 3.7	7. 9.
Transportation and public utilities ⁸ Communications Telephone communications	48 481	65.3 18.6 14.4	6.5 1.8 1.3	3.7 .9 .6	2.5 .6 .5	2.8 .9 .7	6.2 1.3	3.6 .7 .4	2.4 .5 .4	2.0 :

ABLE 6. Incidence rates1 of nonfatal occupational injuries and illnesses by industry and selected case types, 1997— Continued

			In	ijuries an	d illness	es		Inju	ries	
		1997 Annual		Lost w	orkday ses	Cases			orkday ses	Cases
Industry ²	SIC code ³	average employ- ment ⁴ (000's)	Total cases	Total ⁵	With days away from work ⁶	without lost work- days	Total cases	Total ⁵	With days away from work ⁶	without lost work- days
Wholesale and retail trade		310.1	6.7	2.9	1.6	3.8	6.3	2.7	1.5	3.7
Wholesale trade	50 508 51 514	76.4 40.8 12.3 35.6 9.4	6.7 5.2 8.0 8.5 12.9	3.2 1.8 2.3 4.7 7.5	2.0 1.1 1.9 3.2 4.9	3.6 3.4 5.7 3.8 5.4	6.4 4.9 7.9 8.1 12.3	2.9 1.6 2.2 4.5 7.3	1.8 .8 1.8 3.0 4.8	3.5 3.4 5.7 3.6 5.0
Retail trade	52 521 53 531 54 55 551 57 58 59	233.7 10.4 5.5 32.0 26.7 35.1 26.4 11.3 10.3 82.4 25.9	6.6 9.1 12.4 7.7 7.0 6.0 5.5 5.0 4.2 7.1 3.1	2.8 5.0 7.8 3.8 4.0 2.4 1.9 2.4 1.7	1.3 2.7 4.6 2.2 2.3 1.3 1.7 1.5 1.2 .7	3.9 4.0 4.7 4.0 3.0 3.6 3.1 1.8 5.5 2.0	6.3 9.0 12.4 7.7 6.9 5.9 5.5 5.0 3.9 7.0	2.5 5.0 7.8 3.8 3.9 2.4 1.9 2.1 1.7	1.3 2.7 4.6 2.2 2.3 1.3 1.7 1.5 .9	3.8 4.0 4.6 3.9 3.0 3.5 3.1 1.8 5.3 1.9
Finance, insurance, and real estate	65	60.0 10.4	2.0 3.3	.8 1.6	.7 .8	1.1 1.7	1.7 3.3	.8 1.6	.6 .8	.9 1.7
Services Hotels and other lodging places Personal services Business services Personnel supply services Miscellaneous business services Auto repair, services, and parking Miscellaneous repair services Miscellaneous repair shops Amusement and recreation services Health services Nursing and personal care facilities Hospitals Educational services Social services Membership organizations Engineering and management services	70 72 73 736 738 75 76 769 79 80 805 806 82 83 86 87	294.1 10.0 12.4 64.9 20.2 16.6 9.4 5.3 3.4 11.6 102.7 26.6 36.5 7.5 25.2 8.3 26.7	6.6 7.7 5.1 3.5 4.4 2.7 7.1 4.7 5.8 9.3 11.9 15.0 2.9 8.6 1.7 4.3	3.0 2.8 2.7 1.3 2.9 .8 2.4 2.4 3.3 3.4 4.4 9.7 5.2 .9 4.7 .6 1.5	1.9 1.5 1.6 .7 1.4 .6 2.0 2.7 1.1 3.1 6.8 3.9 .6 3.4 .4	3.7 4.9 2.4 2.2 1.5 1.9 4.7 2.3 2.6 5.9 4.8 2.2 9.9 2.0 3.9 1.1 2.8	6.4 7.7 4.4 3.1 4.0 2.3 7.1 4.6 5.7 9.2 9.1 11.9 14.8 2.9 8.2 1.7 4.0	2.9 2.7 2.1 1.1 2.8 .5 2.4 2.4 3.3 3.4 4.4 9.7 5.1 9 4.6 .6 1.4	1.9 1.5 1.4 .6 1.4 1.6 2.0 2.7 1.1 3.1 6.8 3.8 .6 3.4 .5	3.5 4.9 2.3 2.0 1.2 1.7 4.7 2.2 2.5 5.8 4.7 2.2 9.7 2.0 3.6 1.1 2.7

¹ The incidence rates represent the number of injuries and illnesses per 100 Il-time workers and were calculated as: (N/EH) x 200,000, where

EΗ

= number of injuries and illnesses

= total hours worked by all employees during

the calendar year

200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year). work with or without restricted work activity.

Excludes farms with fewer than 11 employees.

NOTE: Because of rounding, components may not add to totals. n.e.c. = not elsewhere classified.

² Totals include data for industries not shown separately.

³ Standard Industrial Classification Manual, 1987 Edition.

⁴ Employment is expressed as an annual average and is derived primarily om the BLS-State Covered Employment and Wages program. Employment in

ivate households (SIC 88) is excluded.

Total lost workday cases involve days away from work, or days of restricted

ork activity, or both.

6 Days-away-from-work cases include those which result in days away from

⁸ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

9 Incidence rate less than 0.05.

Indicates data not available.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies

TABLE 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1997

(thousands)

		1997 Annual average employ- ment ³	tr	juries an	d illness	es	Injuries				
	SIC				orkday ses	Cases		Lost workday cases		Cases	
Industry ¹	code ²		Total cases	Total ⁴	With days away from work ⁵	without lost work- days	Total cases	Total ⁴	With days away from work ⁵	without lost work- days	
Private industry ⁶		1,017.7	75.0	35.1	18.5	39.9	68.0	31.2	17.4	36.7	
Agriculture, forestry, and fishing ⁶		14.4	1.4	.7	.6	.7	1.4	.7	.6	.6	
Agricultural production ⁶	01-02	7.0	1.0	.6	.5	.4	1.0	.6	.5	.4	
Mining ⁷ Oil and gas extraction Oil and gas field services	13 138	8.2 6.8 3.7	.8 .7 .6	.5 .5 .4	.4 .4 .3	.3 .2 .2	.8 .7 .6	.5 .5 .4	.4 .3 .3	.3 .2 .2	
Construction General building contractors Nonresidential building construction Heavy construction, except building Heavy construction, except highway Special trade contractors Plumbing, heating, air-conditioning Electrical work Masonry, stonework, and plastering Miscellaneous special trade contractors	15 154 16 162 17 171 173 174	59.0 13.0 6.9 10.8 7.1 35.2 7.7 5.7 3.8 5.8	6.3 1.2 .7 1.3 .9 3.8 1.1 .7	2.5.3.6.5.8.5.2.2.3 1.5.2.2.3	2.2 .3 .2 .4 .3 1.5 .4 .2 .2	3.4 .7 .4 .7 .5 1.9 .6 .4 .1	6.2 1.2 .7 1.3 .9 3.7 1.1 .7	2.9.5.3.6.5.8.5.2.2.3.5.2.2.3.5.2.2.3.5.2.2.3.5.2.2.3.5.2.2.3.5.2.2.3.5.2.2.3.5.2.3.5.2.3.5.3.5	2.2 .3 .2 .4 .3 1.5 .4 .2 .1	3.3 .7 .4 .7 .4 1.9 .6 .4 .1	
Manufacturing		206.7	30.1	14.4	5.3	15.7	24.8	11.4	4.6	13.3	
Durable goods Stone, clay, and glass products Primary metal industries Industrial machinery and equipment Farm and garden machinery Farm machinery and equipment Lawn and garden equipment Construction and related machinery Industrial machinery, n.e.c. Electronic and other electric equipment Transportation equipment Aircraft and parts	32 33 35 352 3523 3524 353 359 36 37	121.2 6.0 4.1 24.0 5.9 5.5 .4 4.2 3.6 8.6 55.2 44.7	17.6 1.2 .8 3.3 1.0 1.0 (⁸) .7 .5 .7 8.4 6.3	7.7 .5 .2 1.4 .5 .5 (⁸) .2 .2 .3 4.1 3.4	2.9 .2 .1 .6 .2 .2 .2 (⁸) .1 .1 .1.1 .8	9.8 .6 .6 1.9 .5 .5 .5 .4 4.3 2.9	15.1 1.0 .8 3.1 1.0 .9 (*) .7 .5 .5 6.9 5.0	6.4 .5 .2 1.3 .5 .5 .5 .2 .2 .2 .2 .3.1 .2.5	2.6 .2 .1 .6 .2 .2 (⁸) .1 .1 .1	8.7 .5 .6 1.8 .5 .5 .5 .3 .3 3.8 2.5	
Nondurable goods Food and kindred products Meat products Meat packing plants Grain mill products Paper and allied products Printing and publishing Newspapers Commercial printing Commercial printing, lithographic Commercial printing, gravure Commercial printing, n.e.c. Chemicals and allied products Rubber and miscellaneous plastics products Miscellaneous plastics products, n.e.c.	20 201 2011 204 26 27 271 275 2752 2754 2759 28 30 308	85.4 32.6 18.6 15.7 4.3 5.0 23.2 4.4 7.6 3.9 6.5	12.5 7.1 5.1 4.5 .7 .8 1.3 .1 .5 .3 (*) .2	6.6 4.2 2.8 2.5 .5 .7 (*) .2 .1 (*)	2.3 1.1. 6.5 2. 1.1 3 (*) (*) (*) (*)	5.9 3.0 2.3 2.1 .2 .3 .6 .1 .3 .1 (*) .1	9.6 5.1 3.2 2.8 .7 .6 1.1 .5 .3 (*) .2 .4	5.0 2.9 1.7 1.4 .5 .4 .6 (*) .2 .1 (*)	2.0 .9 .5 .4 .2 .1 .3 (*) .1 .1 (*) (*)	4.6 2.2 1.5 1.4 .2 .2 .5 .1 .2 .1 .3 .3 .9 .7	
Transportation and public utilities ⁷	48	65.3 18.6	4.3	2.5	1.6	1.8	4.1	2.4	1.6	1.7	
Telephone communications	481	18.6	.3 .2	.2	.1	.2	.2 .1	.1	.1	.1 (⁸)	

BLE 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1997— Continued

ousands)

	010	1997 Annual	ir	ries						
				1	orkday ses	Cases		Lost workday cases		Cases
Industry ¹	SIC code ²	average employ- ment ³	Total cases	Total ⁴	With days away from work ⁵	without lost work- days	Total cases	Total ⁴	Cases With days away trom work5 6 3.7 4 7 4 2.2 6 1.1 7 4 2.2 4 2.2 8 5.5 7 6 3.3 6 1.4 7 .4 1 1.1 1	without lost work- days
Wholesale and retail trade		310.1	16.6	7.2	3.9	9.4	15.8	6.6	3.7	9.2
Wholesale trade		76.4	5.2	2.5	1.6	2.8	5.0	2.3	1.4	2.7
Wholesale trade durable goods	50	40.8	2.2	.8	.5	1.4	2.1	.7		1.4
Machinery, equipment, and supplies	508	12.3	1.0	.3	.2	.7	1.0	.3		.7
Wholesale trade nondurable goods	51	35.6	3.0	1.7	1.1	1.3	2.9	1.6	1.1	1.3
Groceries and related products	514	9.4	1.2	.7	.5	.5	1.2	.7	.4	.5
Retail trade		233.7	11.4	4.8	2.3	6.6	10.8	4.4	22	6.5
Building materials and garden supplies	52	10.4	.8	.4	.2	.4	.8	.4		.4
Lumber and other building materials	521	5.5	.6	.4	.2	.2	.6	.4		.2
General merchandise stores	53	32.0	1.7	.8	.5	.9	1.7	.8		.9
Department stores	531	26.7	1.2	.7	.4	.5	1.2	.7		.5
Food stores	54	35.1	1.5	.6	.3	.9	1.4	.6		.9
Automotive dealers and service stations	55	26.4	1.4	.6	.4	.8	1.4	.6		.8
New and used car dealers	551	11.3	.6	.2	2	.4	.6	.2		.4
Furniture and homefurnishings stores	57	10.3	.4	.2	.1	.2	.3.	.2		.2
Eating and drinking places	58	82.4	3.9	.9	.4	3.0	3.8	.9	.4	2.9
Miscellaneous retail	59	25.9	.5	.2	.2	.4	.5	.2	.2	.3
Finance, insurance, and real estate		60.0	1.0	.4	.3	.6	.9	.4		.5
Real estate	65	10.4	.3	.1	.1	.1	.3	.1	.1	.1
Services		294.1	14.5	6.5	4.2	8.0	14.0	6.3	4.1	7.8
Hotels and other lodging places	70	10.0	.5	.2	.1	.3	.5	.2		.3
Personal services	72	12.4	.4	.2	.1	.2	.4	.2		.2
Business services	73	64.9	1.4	.5	.3	.9	1.2	.5		.8
Personnel supply services	736	20.2	.2	.1	.1	.1	.2	.1		.1
Miscellaneous business services	738	16.6	.3	.1	.1	.2	.3	.1	(8)	.2
Auto repair, services, and parking	75	9.4	.6	.2	.1	.4	.6	.2		.4
Miscellaneous repair services	76	5.3	.2	.1	.1	.1	.2	.1		.1
Miscellaneous repair shops	769	3.4	2	.1	.1	.1	.2	.1	.1	.1
Amusement and recreation services	79	11.6	.7	.2	.1	.4	.7	.2	.1	.4
Health services	80	102.7	7.6	3.6	2.6	4.0	7.5	3.6		3.9
Nursing and personal care facilities	805	26.6	2.4	2.0	1.4	.5	2.4	2.0		.5
Hospitals	806	36.5	4.3	1.5	1.1	2.8	4.2	1.5		2.8
Educational services	82	7.5	.2	.1	(⁸)	.1	.2	.1		.1
Social services	83	25.2	1.4	.8	.6	.6	1.3	.7		.6
Membership organizations	86	8.3	.1	(8)	(8)	.1	.1	(8)		.1
Engineering and management services	87	26.7	1.1	.4	.2	.7	1.0	.4	.1	.7

¹ Totals include data for industries not shown separately.

Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals. n.e.c. = not elsewhere classified.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies

Standard Industrial Classification Manual, 1987 Edition.
 Employment is expressed as an annual average and is derived primarily n the BLS-State Covered Employment and Wages program. Employment in rate households (SIC 88) is excluded.

Total lost workday cases involve days away from work, or days of restricted

k activity, or both.

Days-away-from-work cases include those which result in days away from

rk with or without restricted work activity.

6 Excludes farms with fewer than 11 employees.

Data conforming to OSHA definitions for mining operators in coal, metal, and nmetal mining and for employers in railroad transportation are provided to BLS the Mine Safety and Health Administration, U.S. Department of Labor; and the

⁸ Fewer than 50 cases.

Indicates data not available.

TABLE 8. Nonfatal occupational illness incidence rates by industry and category of illness, 1997

		ŀ	Kansas									
		Incidence rates per 10,000 full-time workers ³										
Industry¹ .	SIC code ²	Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respira- tory condi- tions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associ- ated with repeated trauma	All other occupa- tional illnesses			
Private industry ⁴		81.1	6.2	0.5	1.5	0.8	1.9	63.9	6.3			
Agriculture, forestry, and fishing4		17.9	9.4	(5)	(5)	(5)	(5)	1.9	7.5			
Agricultural production4	01-02	(⁵)	(5)	(5)	(⁵)	(5)	(5)	(5)	(5)			
Mining ⁶ Oil and gas extraction	13	12.9 8.7	(⁵)	(⁵)	1.2 (⁵)	(⁵) (⁵)	1.2 (⁵)	10.5 8.7	(⁵)			
Construction	15 16 17	17.8 6.0 49.1 11.0	3.2 (⁵) 5.2 3.7	(⁵) (⁵) (⁵)	2.3 (⁵) (⁵) 4.0	(⁵) (⁵) (⁵)	2.7 5.2 7.7 (⁵)	1.4 .9 (⁵) 2.1	8.0 (⁵) 35.3 1.2			
Manufacturing		252.0	18.6	.5	3.7	2.2	4.8	204.8	17.5			
Durable goods		195.3 - 166.9 102.5 215.9 261.6	17.8 34.9 7.2 10.0 10.2 26.0	.7 (⁵) (⁵) 2.0 4.5 (⁵)	4.5 (⁵) 9.5 (⁵) 4.5 8.3	2.0 (⁵) (⁵) (⁵) (⁵) 19.3	2.6 (⁵) (⁵) 2.4 2.3 3.8	145.3 12.7 150.2 86.5 137.5 208.5	22.4 - (⁵) 1.2 38.6 14.7			
Nondurable goods	20 26 27 28	335.8 589.1 290.9 112.7 120.5	19.8 39.8 8.0 3.9 23.8	.2 .6 (⁵) (⁵) (⁵)	2.5 2.9 19.9 (⁵)	2.4 2.6 (⁵) (⁵) (⁵)	7.9 18.2 8.0 (⁵) 3.0	292.7 504.2 249.1 107.8 93.7	10.3 20.8 8.0 .5			
products	30	209.7	3.5	(5)	(5)	(5)	(5)	195.9	10.4			
Transportation and public utilities ⁶	48	31.9 51.6	5.4 (⁵)	(⁵)	1.7 4.5	.2 (⁵)	3.9 11.3	19.4 30.0	1.5 5.7			
Wholesale and retail trade		33.7	.2	.4	(5)	(5)	.7	30.9	1.4			
Wholesale trade	50 51	33.5 - 39.4	.3 (⁵) .6	.8 (⁵) 1.7	(⁵) (⁵) (⁵)	(⁵) (⁵) (⁵)	(⁵) (⁵) (⁵)	27.9 - 27.0	4.5 (⁵) 9.8			
Retail trade	52 53 54 55 57	33.7 4.5 5.1 8.6 (⁵) 24.7	.1 (⁵) .5 (⁵) (⁵) (⁵)	.1 (⁵) .9 (⁵) (⁵) (⁵)	(5) (5) (5) (5) (5) (5)	(5) (5) (5) (5) (5) (5)	1.1 (5) (5) (5) (5) (5) (5)	32.3 4.5 2.8 8.6 (⁵) 24.7	(⁵) .5 (⁵) (⁵) (⁵)			

See footnotes at end of table.

ABLE 8. Nonfatal occupational illness incidence rates by industry and category of illness, 1997— Continued

		Incidence rates per 10,000 full-time workers ³									
Industry ¹	SIC code ²	Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respira- tory condi- tions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associ- ated with repeated trauma	All other occupa- tional illnesses		
Eating and drinking places	58 59	11.1 10.7	(⁵)	(⁵)	(⁵)	(⁵)	(⁵)	11.1 10.7	(⁵)		
Finance, insurance, and real estate	65	26.1 (⁵)	(⁵) (⁵)	(⁵)	1.4 (⁵)	(⁵)	(⁵)	24.7 (⁵)	(⁵) (⁵)		
Services Hotels and other lodging places Personal services Business services Auto repair, services, and parking Miscellaneous repair services Amusement and recreation services Health services Educational services Social services Membership organizations Engineering and management services	70 72 73 75 76 79 80 82 83	21.0 4.3 67.4 36.5 (⁵) 6.0 - 1.7 38.3 (⁵) 21.3	3.9 (5) (5) (5) (5) (5) (6) 8.4 3.9 (5) 26.0 (5) 2.8	1.2 (5) (5) 6.5 (5) (5) (5) (5) (5) (5) (5) (5)	1.1 (5) (5) 2.2 (5) (5) (5) (5) (5) (5) 3.1 (5) 3.2	1.1 (5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	(5) (5) (5) (5) (5) (6) (7) (1.7) (5) (5) (5)	10.0 (5) 32.5 25.5 (5) 6.0 (5) - (5) - (5) 5.1	3.6 4.3 34.9 2.5 (⁵) (⁵) 2.7 (⁵) 5.6 (⁵) 2.8		

¹ Totals include data for industries not shown separately.

NOTE: Because of rounding, components may not add to totals.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies

² Standard Industrial Classification Manual, 1987 Edition.

³ The incidence rates represent the number of illnesses per 10,000 full-time orkers and were calculated as: (N/EH) x 20,000,000, where

 ⁼ number of illnesses

EH = total hours worked by all employees during

the calendar year

^{20,000,000 =} base for 10,000 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

Excludes farms with fewer than 11 employees.

⁵ Incidence rate less than 0.05.

⁶ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

⁻ Indicates data not available.

TABLE 9. Number of new cases of nonfatal occupational illnesses by industry and category of illness, 1997

(in thousands)

			Number of illnesses by category								
Industry ¹	SIC code ²	Total cases	Skin diseases or disorders	Dust diseases of the tungs	Respira- tory condi- tions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associ- ated with repeated trauma	All other occupa- tional illnesses		
Private industry ³		7.1	0.5	(4)	0.1	0.1	0.2	5.6	0.5		
Agriculture, forestry, and fishing ³		(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)		
Agricultural production ³	01-02	(4)	(4)	(4)	(4)	(4)	.(4)	(4)	(4)		
Mining ⁵ Oil and gas extraction	13	(4) (4)	(⁴) (⁴)	(⁴) (⁴)	(4) (4)	(4) (4)	(⁴)	(4) (4)	(⁴)		
Construction	15 16 17	.1 (⁴) .1 (⁴)	(4) (4) (4) (4)	(4) (4) (4) (4)	(4) (4) (4) (4)	(4) (4) (4) (4)	(4) (4) (4) (4)	(4) (4) (4) (4)	(4) (4) (4) (4)		
Manufacturing		5.3	.4	(4)	.1	(4)	.1	4.3	.4		
Durable goods Stone, clay, and glass products Primary metal industries Industrial machinery and equipment Electronic and other electric equipment Transportation equipment	32 33 35 36 37	2.4 - .1 .3 .2 1.5	.2 (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)	.1 (4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)	1.8 (⁴) .1 .2 .1 1.2	.3 (⁴) (⁴) (⁴) .1		
Nondurable goods	20 26 27 28	2.8 2.0 .1 .2 .1	.2 .1 (4) (4) (4) (4)	(4) (4) (4) (4) (4)	(4) (4) (4) (4) (4)	(4) (4) (4) (4) (4)	.1 .1 (4) (4) (4)	2.5 1.7 .1 .2 .1	.1 .1 (4) (4) (4)		
Transportation and public utilities ⁵	30	.2	1	(4)	(4)	(4)	(4)	.2	(4)		
Communications	48	.2 .1	(4)	(⁴) (⁴)	(4)	(4) (4)	(⁴) (⁴)	.1	(4)		
Wholesale and retail trade		.8	(4)	(4)	(4)	(4)	(4)	.8	(4)		
Wholesale trade	50 51	.3 - .1	(4) (4) (4)	(4) (4) (4)	(4) (4) (4)	(4) (4) (4)	(4) (4) (4)	.2 - .1	(4) (4) (4)		
Retail trade	52 53 54 55 57	.6 (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)	.6 (4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4)		

See footnotes at end of table.

3LE 9. Number of new cases of nonfatal occupational illnesses by industry and category of illness, 1997— Continued

thousands)

		_	Number of illnesses by category								
Industry ¹	SIC code ²	Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respira- tory condi- tions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associ- ated with repeated trauma	All other occupational illnesses		
Eating and drinking places Miscellaneous retail	58 59	0.1 (⁴)	(⁴) (⁴)	(⁴) (⁴)	(⁴)	(⁴)	(⁴) (⁴)	0.1 (⁴)	(⁴) (⁴)		
Finance, insurance, and real estate	65	.1	(4) (4)	(⁴) (⁴)	.1 (⁴)	(⁴) (⁴)					
Services Hotels and other lodging places Personal services Business services Auto repair, services, and parking Miscellaneous repair services Amusement and recreation services Health services Educational services Social services Membership organizations Engineering and management services	70 72 73 75 76 79 80 82 83	.5 (4) .1 .1 (4) (4) - (4) .1 (4) .1 (4) .1	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	- (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	.2 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	.1 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)		

Totals include data for industries not shown separately.

mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals.
— Indicates data not available.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies

² Standard Industrial Classification Manual, 1987 Edition.
3 Excludes farms with fewer than 11 employees.

Fewer than 50 cases.

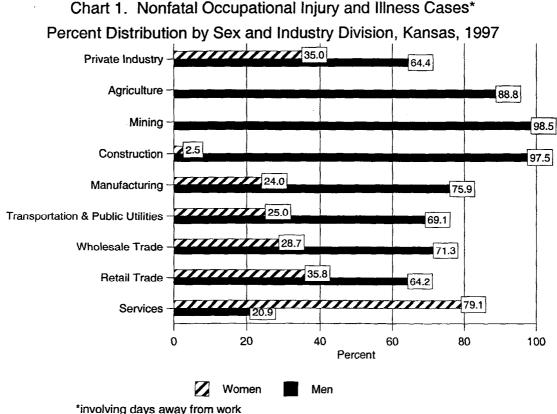
5 Data conforming to OSHA definitions for mining operators in coal, metal, and nmetal mining and for employers in railroad transportation are provided to BLS by Mine Safety and Health Administration, U.S. Department of Labor; and the deral Railroad Administration, U.S. Department of Transportation. Independent

Part II

Case Characteristics

1997 CASE CHARACTERISTICS

- Of the 18,547 injuries and illnesses involving days away from work, nearly two-thirds (11,952) occurred to men while 35% (6,491) occurred to women. (Table 1)
- Occupational injuries or illnesses involving days away from work in the agriculture, forestry & fishing, mining, and construction industries occurred virtually all to men.
- Nearly 8 out of 10 occupational injuries or illnesses involving days away from work that occurred in the services industry were to women.

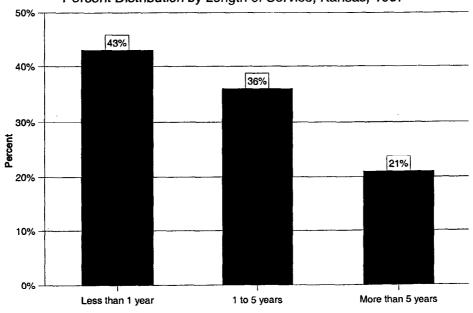


involving days away from work

• Retail trade was the industry in which the number of occupational injuries and illnesses were closest to being evenly distributed with 64% occurring to men and 36% occurring to women. (Chart 1, Table 2)

• Of the workers suffering injuries & illnesses involving days away from work for whom length of service is known, 43% had less than one year of service with their employer at the time of the injury or illness. The majority of these cases can likely be attributed to inexperience. Experienced workers, however, are certainly not immune to incurring occupational injuries and illnesses. One in five (21%) of workers for whom length of service is known, had over five years of service with their employer. (Chart 2, Table 1, Table 2)

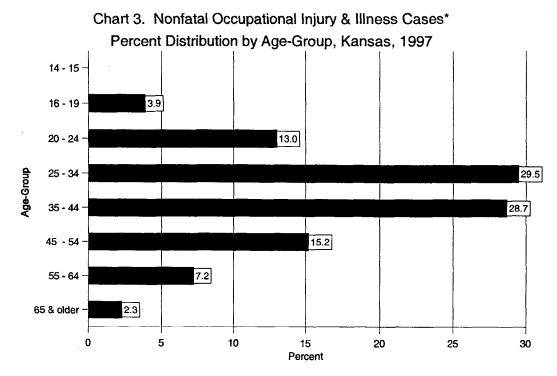
Chart 2. Nonfatal Occupational Injury & Illness Cases* Percent Distribution by Length of Service, Kansas, 1997



*involving days away from work

• A lack of experience appears to be most problematic in the agriculture, forestry, and fishing industry. Over half (51.6%) of the injuries and illnesses occurring in this industry were to workers with less than three months service with their employer at the time of the injury or illness. (Table 2)

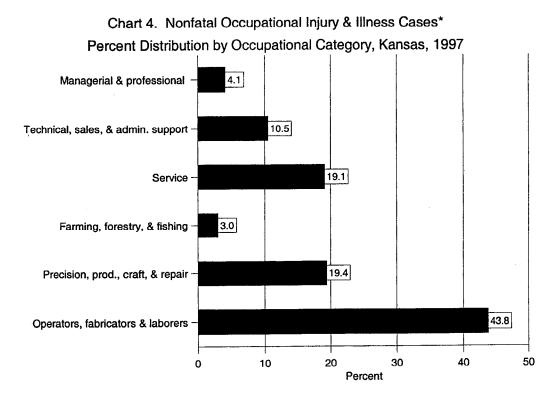
• The majority of injuries and illnesses involving days away from work occurred to workers in the 25-34 age group with 5,475 followed closely by the 35-44 age group with 5,320. Together these two age groups accounted for 58% of all injuries and illnesses with days away from work.(Chart 3, Table 1)



*involving days away from work

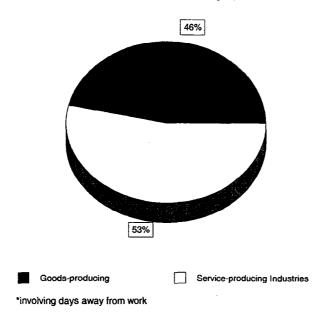
• When looking at the percent distribution of injuries and illnesses by age-group within industry divisions, the agriculture, forestry, and fishing industry had the overwhelming percent of workers in the 20 to 24 age-group with 40.1%. (Table 2)

• Operators, fabricators, and laborers was the occupational category with the highest number of occupational injuries and illnesses involving days away from work with 8,121, or 43.8%. This group includes truck drivers, nonconstruction laborers, and assemblers. (Chart 4, Table 1, Table 2)



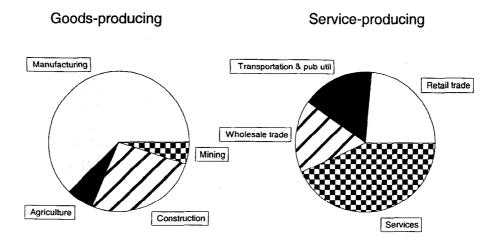
- *involving days away from work
- Goods-producing industries accounted for 45.7% of the nonfatal occupational injuries and illnesses involving days away from work. Among the occupations within these industries having a high number of cases are construction laborers (742), assemblers (586), carpenters (399) and welders and cutters (297). (Chart5, Table 3)
- Service-producing industries accounted for the remaining 54.3% of the nonfatal occupational injuries and illnesses involving days away from work. Among the occupations within these industries having a high number of cases are nursing aides and orderlies (1,518), truck drivers (900), freight, stock & materials handlers n.e.c. (563), and nonconstruction laborers (476). (Chart 5, Table 3)

Chart 5. Nonfatal Occupational Injury and Illness Cases* Percent Distribution by Industry Category, Kansas, 1997



• As would be expected, manufacturing dominated the goods-producing industries with 62.3% of injury and illness cases occurring in this industry. Also as would be expected, service industries dominated the service-producing industries with 43.2% of injury and illness cases occurring in this industry. Retail trade accounted for another quarter (23.7%). (Chart 6).

Chart 6. Nonfatal Occupational Injury & Illness Cases * Percent Distribution by Industry by Category, Kansas, 1997



*involving days away from work

Sprains and strains were responsible for nearly half the occupational injury & illness cases involving days away from work (45.8%). Bruises and contusions was the nature category with the next highest number of injury cases and represented a distant 9.5% of injuries involving days away from work. Fractures were third with 8.5%. (Chart 7, Table 5)

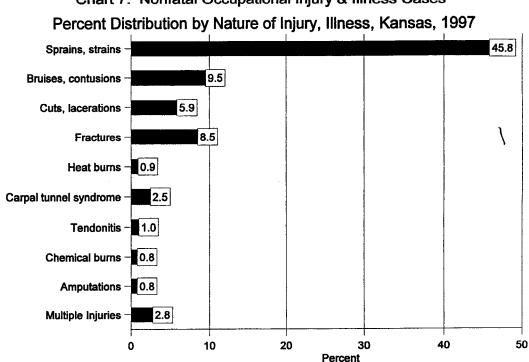
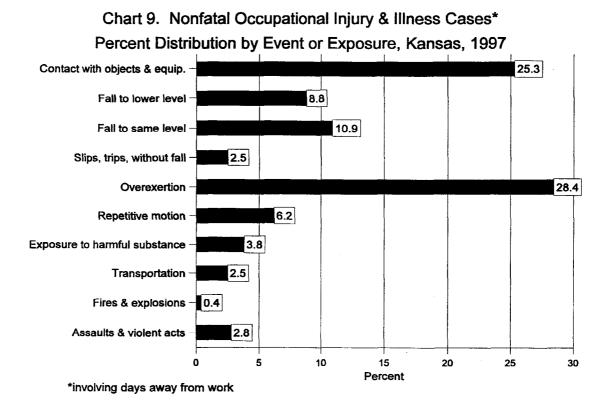


Chart 7. Nonfatal Occupational Injury & Illness Cases*

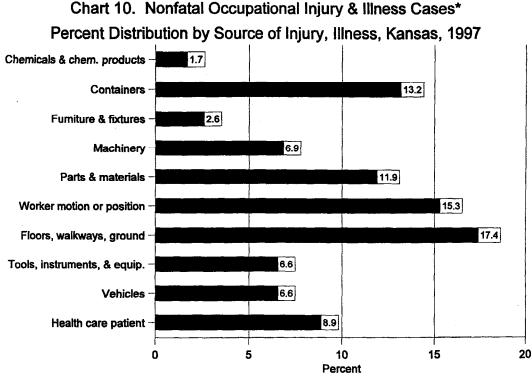
- As would be expected, with such a large number of sprains and strains, the trunk was the part of body most often affected as was the case in 7,056 injuries, or 38% of injury cases. Nearly two-thirds (63.4%) of the trunk injuries (4,474) involved the back and 1,211 involved the shoulder. Upper extremities were affected in approximately one out of four (24.1%) injury and illness cases involving days away from work. (Chart 8, Table 5)
- Two event categories accounted for over half (53.7%) the injury and illness cases involving days away from work. Overexertion caused over one fourth (28.4%) of the injuries involving days away from work and contact with objects and equipment was responsible for another quarter. Of the 5,275 cases of overexertion, 3,168 were due to lifting. Falls accounted for nearly one out of 5 injuries (19.7%). Of the 3,746 falls, 2,030 (54.2%) were falls to the same level. (Chart 9, Table 4, Table 5)

Chart 8. Nonfatal Occupational Injury & Illness Cases* Percent Distribution by Part of Body Affected, Kansas, 1997 8.1 Head Neck -38.0 Trunk Upper extremities 24.1 21.6 Lower extremities Body systems Multiple parts 5.9 0 5 10 15 20 25 30 35 40 Percent

*Involving days away from work



• A variety of sources were responsible for the occupational injury and illness cases involving days away from work. Floors, walkways, and ground surfaces were the source of injury in 17.4% of the cases, worker motion or position in 15.3%, containers in 13.2% and parts and materials in 11.9%. Together these sources accounted for 57.8% of injury and illness cases involving days away from work. (Chart 10, Table 5)



*involving days away from work

- Experience with the data has shown floors, walkways, and ground surfaces to be the major source of injury in falls to the same level, worker motion or position to be the major source involved in repetitive motion events, and containers to be the source involved in the majority of overexertion in lifting injuries.
- While there were no major distinctions between men and women regarding the number of days away from work due to work related injuries and illnesses, more men were represented in longer lengths of days away than were women suggesting that on the whole, men sustained injuries and illnesses that were more severe than did women. For men, the median number of days away from work was five, and for women, 4. (Chart 11, Table 7)

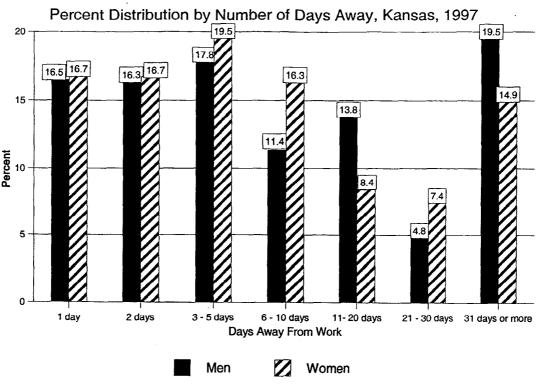
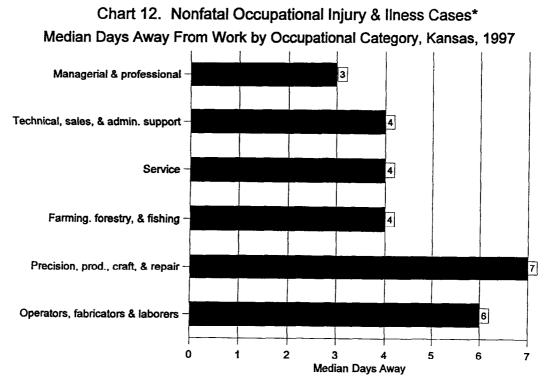
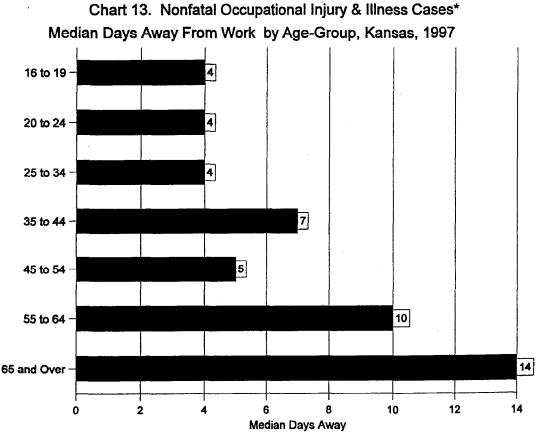


Chart 11. Nonfatal Occupational Injury & Illness Cases*



^{*}involving days away from work

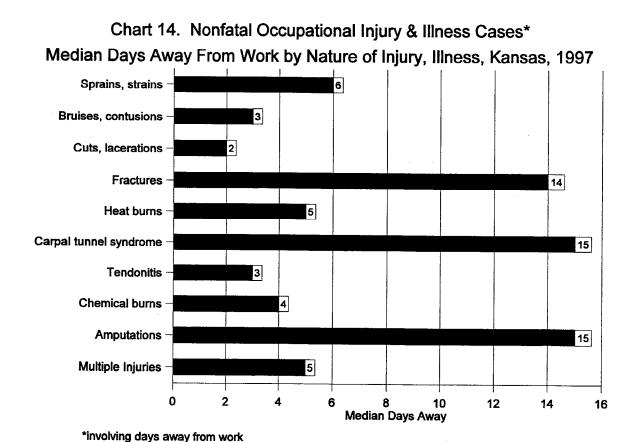
- Median days away from work, the key measure of severity, designates the point at which half the cases involved more days away and half involved fewer days away. The occupational category with the highest median days away was precision production, craft and repair with 7. (Chart 12, Table 7)
- Among the specific occupations with high median days away from work are truck drivers (14), licensed practical nurses (14), traffic, shipping and receiving clerks (14), precision assemblers, metal (13), bus, truck and stationary engine mechanics (12), plumbers, pipefitters, and steamfitters (12), assemblers (10), and garage and service station related occupations (10). (Table 8)



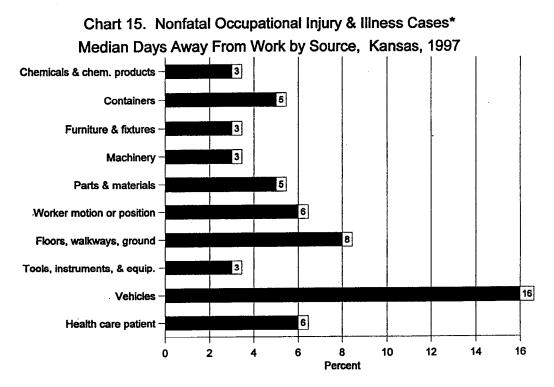
*involving days away from work

- Employees 55 years and older had higher median days away from work than younger age-groups. Employees 55 to 64 had a median of 10 days away and those 65 and over had a median of 14. (Chart 13, Table 7)
- Illustrating this further, 37.4% of all injuries and illnesses occurring to employees 65 and over resulted in 31 days or more away from work. (Table 7)

- Carpal tunnel syndrome and amputations were responsible for the longest length of time away from work with a median number of days away of 15. This was followed closely by fractures with a median of 14 days away. (Chart 14, Table 9)
- Injuries and illnesses affecting the knee had the highest median days away from work with 20. The shoulder had the next highest with 9. (Table 9)



- Of all sources of injuries and illnesses involving days away from work, vehicles accounted for the highest median days away (16). (Chart 15, Table 9)
- Vehicles has such a significantly higher median days away than all other sources because 44.6% of all injuries and illnesses with vehicles as the source involved 21 or more days away from work. (Table 9)
- Floors, walkways, and ground surfaces had the second highest median days away with a distant 8. (Chart 15, Table 9)
- Over one-fourth (26.3%) of injuries and illnesses with worker motion or position as the source were severe enough to result in 31 days or more away from work. (Table 9)



• Falls to a lower level was the event having the highest median days away from work with 17. Transportation accidents had the next highest with a median of 14 days away from work. (Chart 16, Table 9)

Median Days Away From Work by Event or Exposure, Kansas, 1997 Contact with objects & equip. -17 Fall to lower level Fall to same level Slips, trips, without fall -Overexertion Repetitive motion -Exposure to harmful substance Transportation Fires & explosions Assaults & violent acts ٥ 5 15 20 10 **Median Days Away**

Chart 16. Nonfatal Occupational Injury & Illness Cases*

Median Days Away From Work by Event or Exposure, Kansas, 1997

- The industry with the highest median days away from work was transportation and public utilities with 12. (Table 10)
- The industry with the highest distribution of injuries and illnesses resulting in only one day away from work was retail trade in which one fourth (25.8%) of all injuries and illnesses occurring on the job resulted in just a day away. (Table 10)
- Two industries in Kansas having the highest distribution of work related injuries & illness involving 31 days or more away from work were mining with 31% and construction with 29.4%. (Table 10)

Table 1. Number of nonfatal occupational injuries and illnesses involving days away from work' by selected worker characteristics and industry division, 1997

Kansas-private industry

			Goods p	roducing			S	ervice producir	ng	
Characteristic	Private industry ²	Agriculture, forestry, and fishing ²	Mining ³	Construction	Manufactur- ing	Transpor- tation and public utilities ³	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Total	18,547	565	404	2,233	5,283	1,632	1,588	2,298		4,197
Sex:										
Men	11,952	502	398	2,177	4,008	1,127	1,132	1,475		876
Women	6,491			56	1,269	407	456	822		3,320
Age: 14 to 15 16 to 19 20 to 24	 716 2,414	 226	 10 55	 122 289	167 837	 42 164	 214	 192 212	 	 148 409
25 to 34	5,475	165	133	584	1,427	563	486			1,157
35 to 44	5,320		110	778	1,727	504	213	567		1,308
45 to 54	2,828		73		726	258	455			612
55 to 64	1,341		22	185	360	81		200		361
65 and over	429			••	35			87		201
Occupation: Managerial and professional specialty Technical, sales, and administrative support Service Farming, forestry, and fishing Precision production, craft, and repair	758 1,942 3,538 554 3,606	 491	 231	 1,124	45 216 102 1,434	 111 131	 164 256 339	586 	 	515 656 2,522 102
Operators, fabricators, and laborers	8,121		169	1,069	3,460		771	856		388
Length of service with employer: Less than 3 months 3 to 11 months 1 to 5 years More than 5 years Not reported	3,197 3,609 5,686 3,314 2,742	292 	56 116 73 96 64	547 466 770	758 960	267 183 149 273 759	208 369 599 323	310 335 909	 	707 1,055 1,568 597 270
Race or ethnic origin: White, non-Hispanic	11,493	377	208	1,721	2,996	628	882			3,286
Black, non-Hispanic Hispanic	854 974	 	 45	60 156	202 213	41		62 185	 	202 159
Asian or Pacific Islander American Indian or Alaskan Native Not reported	110 112 5,004		 151	 271	56 62 1,753	 955	 534	803	 	 517

¹ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

Table 2. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by selected worker characteristics and industry division, 1997

Kansas-private industry

	Goods producing						s	ervice producir	ng	
Characteristic	Private industry ²	Agriculture, forestry, and fishing ²	Mining ³	Construction	Manufactur- ing	Transpor- tation and public utilities ³	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Total [18,547 cases]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
Sex: Men Women	64.4 35.0	88.8 	98.5 	97.5 2.5			71.3 28.7			20.9 79.1
Age: 14 to 15 16 to 19 20 to 24 25 to 34 35 to 44 45 to 54 55 to 64 65 and over	3.9 13.0 29.5 28.7 15.2 7.2 2.3	 40.1 29.3 	2.6 13.6 32.9 27.1 18.0 5.5	 5.5 12.9 26.1 34.8 12.3 8.3	15.8 27.0 32.7	2.6 10.0 34.5 30.9 15.8 4.9	 13.5 30.6 13.4 28.7	31.6	-	3.5 9.7 27.6 31.2 14.6 8.6 4.8
Occupation: Managerial and professional specialty Technical, sales, and administrative support Service Farming, forestry, and fishing Precision production, craft, and repair Operators, fabricators, and laborers	4.1 10.5 19.1 3.0 19.4 43.8	 86.9 	 57.2 41.8	50.3 47.9	0.9 4.1 1.9 27.1 65.5	 6.8 8.0 82.4	 10.3 16.1 21.4 48.6	3.1 23.2 25.5 10.2 37.2	 	12.3 15.6 60.1 2.4 9.2
Length of service with employer: ' Less than 3 months 3 to 11 months 1 to 5 years More than 5 years Not reported	17.2 19.5 30.7 17.9 14.8	51.6 	13.7 28.8 18.0 23.7 15.8	24.5 20.8 34.5 15.5 4.7	14.4 18.2 25.1 23.8 18.6	16.4 11.2 9.1 16.8 46.5	13.1: 23.2: 37.7 20.4	13.5 14.6 39.6 11.8 20.5	 	16.8 25.1 37.4 14.2 6.4
Race or ethnic origin: White, non-Hispanic Black, non-Hispanic Hispanic Asian or Pacific Islander American Indian or Alaskan Native Not reported	62.0 4.6 5.3 0.6 0.6 27.0	66.7 	51.5 11.1 37.4	77.1 2.7 7.0 12.1	56.7 3.8 4.0 1.1 1.2 33.2	38.5 2.5 58.5	55.6 33.6	54.2 2.7 8.0 34.9	 	78.3 4.8 3.8 12.3

¹ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

Table 3. Number of nonfatal occupational injuries and illnesses involving days away from work' by selected worker occupations and industry division, 1997

Kansas-private industry

Goods producing Service producing													
			Goods p	roducing			S	ervice producir	ng				
Occupation	Private industry ²	Agriculture, forestry, and fishing ²	Mining ³	Construction	Manufactur- ing	Transpor- tation and public utilities ³	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services			
Total	18,547	565	404	2,233	5,283	1,632	1,588	2,298		4,197			
Nursing aides, orderlies, and attendants Truck drivers Laborers, nonconstruction Construction laborers Assemblers Janitors and cleaners Carpenters Cooks Stock handlers and baggers Welders and cutters Registered nurses Kitchen workers, food preparation Farm workers Butchers and meat cutters Sales workers, other commodities Machinists Licensed practical nurses Miscellaneous food preparation occupations Precision assemblers, metal Bank tellers Automobile mechanics Driver-sales workers Traffic, shipping, and receiving clerks	1,520 1,390 897 742 618 414 409 384 371 362 357 335 315 305 283 229 227 208 188 179 169 158	315		2,233 52 742 356 	219 222 188 198 290 219 229 299	 586 36 	220 249 120 256 142	94 191 107 152 213 59 230 69 142 		4,197 1,518 149 224 357 53 227 134			
Supervisors, production occupations Bus, truck, and stationary engine mechanics	154 152				118			18					
Maids and housemen	150	 								150			
Plumbers, pipefitters, and steamfitters Health aides, exc. nursing Printing press operators Groundskeepers and gardeners, exc. farm Garage and service station related occupations	147 138 135 130 129	 	 	98 	42 135 	 	 	 124	 	138			

Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

Table 4. Number of nonfatal occupational injuries and illnesses involving days away from work! by selected injury or illness characteristics and industry division, 1997

Kansas-private industry

Turious private intuesty												
			Goods p	oroducing			s	ervice producir	ng			
Characteristic	Private industry ²	Agriculture, forestry, and fishing ²	Mining ³	Construction	Manufactur- ing	Transpor- tation and public utilities ³	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services		
Total	18,547	565	404	2,233	5,283	1,632	1,588	2,298		4,197		
Nature of injury, illness:	1			,	0,200	,,002	1,000	2,200		1,101		
Sprains, strains	8,491	210	135	887	1,797	999	628	1,242	j	2,360		
Bruises, contusions	1,759	210	53	147	586	162	028	309		303		
Cuts, lacerations	1,100		9	152	317	30	334	162		83		
Fractures	1,577		67	298	460	108	304	170		324		
Heat burns	173	[230	61		•	170		58		
Carpal tunnel syndrome	470	{			212		128			56		
Tendonitis	182				79		120					
Chemical burns	149				63	}						
Amputations	149	1			64							
Multiple injuries	520		29	70	109	63		83		120		
Part of body affected:			}			33	i		1	120		
Head	1,504		34	199	612	60	ı	140		284		
Eye	645		25	57	337	63 28		142 45		284 96		
Neck	224			3/1	94	20		45		65		
Trunk	7,056	203	172	581	1,611	685	483	1,002	1	2,070		
Shoulder	1,211	1	10	76	326	139		132]	445		
Back	4,474	150	117	409	896	411	264	700	1	1,317		
Upper extremities	4,467		126	528	1,684	275	579	449	}	681		
Wrist	1,327		11	106	468	100	179	188		178		
Hand, except finger	372		14		201	32		53				
Finger	1,585	[74	136	562	78	350	104		266		
Lower extremities	3,999		55	708	898	466	406	496		816		
Knee	1,994	1	16	306	470	297	226	192		387		
Foot, except toe	485	1	}	130	165	43				82		
Toe	225		15		40	27	1	49				
Body systems	117				18					57		
Multiple parts	1,087		11	174	360	96		177		176		
See footnotes at end of table.												

			Goods p	producing		Service producing					
Characteristic	Private industry ²	Agriculture, forestry, and fishing ²	Mining ³	Construction	Manufactur- ing	Transpor- tation and public utilities ³	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	
Source of injury, illness: Chemicals and chemical products Containers Furniture and fixtures Machinery	309 2,447 488		 24 	48 215	114 469 124 421	 493 51 32	345 357	443 156	 	112 426 131	
Parts and materials Worker motion or position Floors, walkways, ground surfaces	1,286 2,203 2,829 3,229	 270	44 87 31 27	474 194 652	876 1,260 803	117 224 149	192 340 150	622		63 167 359 526	
Tools, instruments, and equipment Vehicles Health care patient	1,225 1,223 1,653		88 36 	149 101 	462 252 	57 422 	 	138 133 	 	259 175 1,652	
Event or exposure: Contact with objects and equipment Struck by object Struck against object	4,684 2,081 1,250	188 	181 85 15	627 256 132	1,679 706 393	415 233 110	516 130 330	477 266 104	 	596 279 148	
Caught in equipment or object Fall to lower level Fall to same level Slips, trips, loss of balancewithout fall	863 1,636 2,030 466		66 19 8	162 404 244 66	385 331 567 143	38 261 96	120 110	572	 	115 135 422 81	
Overexertion Overexertion in lifting Repetitive motion Exposure to harmful substances	5,275 3,168 1,150 698	 	113 64 12			465 277 43 60	523 228 166	611 424		1,823 1,352 77 190	
Transportation accidents Fires and explosions Assaults and violent acts by person	457 79 521	 	33		200 77 	69 	 	51 	 	93 492	

¹ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

Table 5. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by selected injury or illness characteristics and industry division, 1997

Kansas-private industry

Goods producing . Service producing										
	1		Goods	producing			5	ervice producii	ng 	
Characteristic	Private industry ²	Agriculture, forestry, and fishing ²	Mining ³	Construction	Manufactur- ing	Transpor- tation and public utilities 3	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Total [18,547 cases]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
Nature of injury, illness:										
Sprains, strains	45.8	37.1	33.5	39.7	34.0	61.2	39.5	54.1		56.2
Bruises, contusions	9.5		13.1	6.6	11.1	9.9		13.4		7.2
Cuts, lacerations	5.9		2.2	6.8	6.0	1.8	21.0	7.0		2.0
Fractures	8.5	(16.7	13.3	8.7	6.6		7.4		7.7
Heat burns	0.9				1.1			!	[1.4
Carpal tunnel syndrome	2.5				4.0	<u>.</u> .	8.0			
Tendonitis	1.0				1.5					••
Chemical burns	0.8				1.2					
Amputations	0.8				1.2					
Multiple injuries	2.8		7.2	3.1	2.1	3.9		3.6		2.9
Part of body affected:	J .					i				
Head	8.1		8.3	8.9	11.6	3.9		6.2	·I	6.8
Eye	3.5		6.1	2.5	6.4	1.7		1.9	1	2.3
Neck	1.2	∤			1.8					1.6
Trunk	38.0	35.9	42.6	26.0	30.5	42.0	30.4	43.6		49.3
Shoulder	6.5	{	2.5	3.4	6.2	8.5		5.7		10.6
Back	24.1	26.5	28.8	18.3	17.0	25.2	16.6	30.5		31.4
. Upper extremities	24.1		31.1	23.6	31.9	16.8	36.4	19.6		16.2
Wrist	7.2		2.8	4.8	8.9	6.1	11.3	8.2	1	4.2
Hand, except finger	2.0		3.6		3.8	1.9		2.3		
Finger	8.5	·	18.4	6.1	10.6	4.8	22.0	4.5		6.3
Lower extremities	21.6		13.5	31.7	17.0	28.6	25.5	21.6		19.4
Knee	10.8]	4.0	13.7	8.9	18.2	14.3	8.4		9.2
Foot, except toe	2.6		}	5.8	3.1	2.6				2.0
Toe .	1.2		3.6		0.7	1.7		2.1		
Body systems	0.6				0.3				{	1.4
Multiple parts	5.9		2.7	7.8	6.8	5.9		7.7		4.2
See footnotes at end of table.	<u></u>		<u>-</u>		ــــــــــــــــــــــــــــــــــــــ					<u> </u>

Table 5. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by selected injury or illness characteristics and industry division, 1997 — Continued

			Goods p	roducing			S	ervice producii	ng	
Characteristic	Private industry ²	Agriculture, forestry, and fishing ²	Mining ³	Construction	Manufactur- ing	Transportation and public utilities 3	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Source of injury, illness:										
Chemicals and chemical products	1.7			2.1	2.2					2.7
Containers	13.2		6.0		8.9	30.2	21.7	19.3		10.2
Furniture and fixtures	2.6				2.4	3.1		6.8		3.1
Machinery	6.9		10.8	9.6		2.0	22.4	5.3		1.5
Parts and materials	11.9		21.6	21.2	16.6	7.2	12.1	9.7		4.0
Worker motion or position	15.3		7.8	8.7	23.9	13.7	21.4			8.6
Floors, walkways, ground surfaces	17.4	47.8	6.8	29.2	15.2	9.1	9.5	27.1		12.5
Tools, instruments, and equipment	6.6		21.8	6.7	8.7	3.5		6.0		6.2
Vehicles	6.6		8.8	4.5	4.8	25.9	*-	5.8		4.2
Health care patient	8.9				••					39.4
Event or exposure:	1									
Contact with objects and equipment	25.3	33.2	44.7	28.1	31.8	25.4	32.5	20.8		14.2
Struck by object	11.2		21.0	11.5	13.4	14.3	8.2	11.6		6.7
Struck against object	6.7		3.8	5.9	7.4	6.7	20.8	4.5		3.5
Caught in equipment or object	4.7	••	16.4	7.2	7.3	2.3		2.4		2.7
. Fall to lower level	8.8	34.4	4.8	18.1	6.3	16.0	7.5			3.2
Fall to same level	10.9		2.0		10.7	5.9		24.9		10.1
Slips, trips, loss of balancewithout fall	2.5			2.9	2.7		6.9			1.9
Overexertion	28.4		28.0	18.6	20.1	28.5	33.0			43.4
Overexertion in lifting	17.1		15.9	5.4	9.0	17.0	14.4	18.4		32.2
Repetitive motion	6.2		••		13.4	2.6	10.5	2.7		1.8
Exposure to harmful substances	3.8		3.0	5.0	5.0	3.7				4.5
Transportation accidents	2.5		8.1	4.8	1.5	4.2		2.2		2.2
Fires and explosions	0.4									
Assaults and violent acts by person	2.8									11.7

Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

Table 6. Incidence rates' for nonfatal occupational injuries and illnesses involving days away from work² per 10,000 full-time workers for selected characteristics and industry division, 1997

				Goods p	producing			s	ervice produci	ng	
	Characteristic	Private industry ³	Agriculture, forestry, and fishing ³	Mining ⁴	Construction	Manufactur- ing	Transpor- tation and public utilities ⁴	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Total [18	547 cases]	212.8	531.8	472.3	398.4	251.4	245.7	204.0	134.1		191.8
Nature of injury,	Illness:	1					2 10.7	204.0	107.1		191.0
Sprains, strair	hs	97.4	197.2	158.2	158.3	85.5	150.4	80.7	70.5	1	407.0
Bruises, contr	usions	20.2	107.2	61.9	26.2	27.9	24.4	80.7	72.5		107.8
Cuts, laceration	ons	12.6		10.4	27.1	15.1	4.5	42.9	18.0	•-	13.9
Fractures		18.1		78.8	53.1	21.9	16.2	42.9			3.8
Heat burns		2.0		, 0.0	30.1	21.9	10.2		10.0		14.8
Carpal tunnel	syndrome	5.4	1			10.1		16.4			2.7
Tendonitis		2.1				3.8		10.4			••
Chemical burn	ns	1.7				3.0		-]	**	
Amputations		1.7				3.1]	-	•		
Multiple injurie	es	6.0		33.9	12.5	5.2	9.5		4.8		5.5
Part of body affect	ted:	1 1	ľ			0.2	3.5		4.0		5.5
Head		17.3		39.3	25.5	00.4	ا م				
Eye		7.4		28.6	35.5 10.1	29.1	9.6	1	8.3		13.0
Neck		2.6		20.0	10.1	16.0	4.3		2.6		4.4
Trunk		81.0	190.8	201.3	103.7	4.5	400 4				3.0
Shoulder		13.9	190.0	12.0	13.5	76.7	103.1	62.0	58.5	[94.6
Back		51.3	140.9	136.1	73.0	15.5	20.9		7.7		20.4
Upper extremi	ties	51.3	140.5	147.1		42.6	61.9	34.0	40.9		60.2
Wrist		15.2	<u>"</u>]	13.3	94.1 19.0	80.1	41.3	74.3	26.2		31 .1
Hand, exce	ent finger	4.3		16.8	19.0	22.3	15.1	23.0	11.0		8.1
Finger		18.2	- 1		04.0	9.6	4.8		3.1		
Lower extremi	ties	45.9	-1	86.8	24.3	26.8	11.8	44.9	6.1		12.2
Knee		22.9	-1	63.8 18.9	126.4	42.8	70.2	52.1	29.0		37.3
Foot, excep	ot toe	5.6		18.9	54.6	22.4	44.8	29.1	11.2		17.7
Toe		2.6		47.7	23.2	7.8	6.4		_ 		3.8
Body systems		1.3		17.1	1	1.9	4.1		2.8		
Multiple parts]	12.5		12.8	31.1	17.0					2.6
See footnotes at e	and of table	12.31	<u> </u>	14.8	31.1	17.2	14.5		10.4	1	8.0

Table 6. Incidence rates' for nonfatal occupational injuries and illnesses involving days away from work? per 10,000 full-time workers for selected characteristics and industry division, 1997 -- Continued

			-tunious p	iivate iiiuusti	,		·			
			Goods p	roducing			S	ervice producir	ng	
Characteristic	Private industry ³	Agriculture, forestry, and fishing ³	Mining ⁴	Construction	Manufactur- ing	Transpor- tation and public utilities ⁴	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Source of injury, illness:		-								
Chemicals and chemical products	3.5			8.5	5.4					5.1
Containers	28.1		28.4		22.3	74.2	44.3	25.9		19.5
Furniture and fixtures	5.6				5.9	7.6		9.1		6.0
Machinery	14.8		51.2	38.3	20.0	4.8	45.8	7.2		2.9
Parts and materials	25.3		101.8	84.7	41.7	17.7	24.7	13.0		7.6
Worker motion or position	32.5		36.7	34.6	60.0	33.7	43.6	19.9		16.4
Floors, walkways, ground surfaces	37.1	254.4	32.1	116.4	38.2	22.4	19.3	36.3		24 .0
Tools, instruments, and equipment	14.1		103.0	26.6	22.0	8.7		8.1		11.9
Vehicles	14.0		41.7	18.0	12.0	63.5		7.7		8.0
Health care patient	19.0									75.5
Event or exposure:		*				1			1	
Contact with objects and equipment	53.8	176.5	211.0	111.8	79.9	62.4	66.3	27.9		27.2
Struck by object	23.9		99.1	45.6	33.6	35.1	16.7	15.6		12.8
Struck against object	14.3		17.9	23.5	18.7	16.5	42.4	6.1		6.8
Caught in equipment or object	9.9		77.5	28.9	18.3	5.7		3.2		5.3
Fall to lower level	18.8	183.1	22.4	72.1	15.8	39.2	15.4	9.4		6.2
. Fall to same level	23.3		9.5	43.5	27.0	14.5	••	33.4		19.3
Slips, trips, loss of balancewithout fall	5.3			11.7	6.8		14.2	2.6		3.7
Overexertion	60.5		132.1	74.1	50.4	70.1	67.2	35.7		83.3
Overexertion in lifting	36.4		75.1	21.7	22.6	41.7	29.3	24.7		61.8
Repetitive motion	13.2				33.7	6.5	21.4	3.6		3.5
Exposure to harmful substances	8.0	••	14.2	20.1	12.7	9.1				8.7
Transportation accidents	5.2	••	38.2	19.0	3.7	10.4		3.0		4.3
Fires and explosions										
Assaults and violent acts by person	6.0									22.5

¹ Incidence rates represent the number of injuries and illnesses per 10,000 full-time workers and were calculated as: (N/EH) x 20,000,000 where

= number of injuries and illnesses

EΗ

= total hours worked by all employees during calendar year

20,000,000 = base for 10,000 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

⁴ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

² Days away from work cases include those which result in days away from work with or without restricted work activity.

³ Excludes farms with fewer than 11 employees.

Table 7. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by selected worker characteristics and number of days away from work, 1997

				Perc	ent of cases inv	olving			
Characteristic	Total cases	1 day	2 days	3 to 5 days	6 to 10 days	11 to 20 days	21 to 30 days	31 days or more	Median days away from work
Total [18,547 cases]	100.0	16.6	16.3	18.4	13.1	11.9	5.8	17.9	5
Sex: Men Women	100.0 100.0							19.5	
Age: 14 to 15									
16 to 19 20 to 24 25 to 34 35 to 44 45 to 54 55 to 64 65 and over	100.0 100.0 100.0 100.0 100.0 100.0	19.8 17.6 13.9 18.9 14.4	14.6 20.7 15.1 15.7 7.8	25.6 19.0 17.5 16.8 15.1	12.3 13.6 12.1 12.1 14.4	9.6	8.1 5.1 5.9	8.8 13.9 11.9 21.5 22.0 25.2 37.4	4 7
Occupation: Managerial and professional specialty Technical, sales, and administrative support Service Farming, forestry, and fishing Precision production, craft, and repair Operators, fabricators, and laborers	100.0 100.0 100.0 100.0 100.0	19.6 14.4 18.5 15.0	17.2 26.8 19.9 7.6	32.6 13.0 17.0 37.1 18.5 17.8	9.0 10.2 16.9 14.2 13.5	13.9 9.8 7.8 9.8 14.0	1.9 5.0 5.3 0.6	5.9 20.8 14.5 15.7 21.1	3 4 4 7 6
Length of service with employer: Less than 3 months 3 to 11 months 1 to 5 years More than 5 years	100.0 100.0 100.0 100.0	18.6 17.8	15.0 22.2 16.3 14.2	22.5 18.2	11.8	8.3 8.4 13.4	12.0 4.0 5.0 4.6	11.7 15.5 20.5	4 4 6 8
Race or ethnic origin: White, non-Hispanic Black, non-Hispanic Hispanic Asian or Pacific Islander American Indian or Alaskan Native	100.0 100.0 100.0 100.0 100.0	15.3 12.4 14.4 61.7 3.0	14.8 29.1 13.4 6.9 19.1	19.6 16.7 14.1 7.4 22.5	13.2 8.4 17.5 11.6 55.3	12.0 9.3 9.4 6.0	5.4 12.1 10.6 	19.5 12.2 20.6 6.5	6 4 9 1 8

¹ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

SOURCE: Bureau of Labor Statistics, U. S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

Table 8. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by selected occupations and number of days away from work, 1997

		Perce	ent of cases inv	olving					
Occupation	Total cases	1 day	2 days	3 to 5 days	6 to 10 days	11 to 20 days	21 to 30 days	31 days or more	Median days away from work
Total [18,547 cases]	100.0	16.6	16.3	18.4	13.1	11.9	5.8	17.9	5
Nursing aides, orderlies, and attendants Truck drivers Laborers, nonconstruction Construction laborers Assemblers Janitors and cleaners Carpenters Cooks Stock handlers and baggers Welders and cutters Registered nurses Kitchen workers, food preparation	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	7.5 5.4 28.7 15.4 21.4 14.6 3.8 34.6 25.5 20.7 10.2 45.1	10.9 2.3 15.3 8.7 23.2 10.2 27.7 38.5 2.3 28.0 26.2 47.9	27.0 16.6 12.5 22.7 9.7 17.9 14.2 3.8 28.8 24.4		8.7 29.6 7.9 12.9 5.2 12.4 26.7 9.1 18.0 6.0 17.5 7.0	4.5 18.0 7.0 6.0 2.8 10.0 1.8 7.1 5.5 5.1 3.5	24.1 19.2 11.9 23.7 20.6 15.5 10.7 6.1 17.1 9.9	4 8 3
Farm workers Butchers and meat cutters Sales workers, other commodities Machinists Licensed practical nurses Miscellaneous food preparation occupations Precision assemblers, metal Bank tellers	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	4.0 12.9 25.1 17.1 7.6 6.7 9.0	12.0 26.8 8.9 22.5 10.2 16.1 16.8 96.2	40.0 26.0 19.3 26.7 12.2 5.9	9.7 12.3 2.3 72.3 9.5	16.0 12.4 9.3 9.9 18.3 2.2 25.8	5.0 1.7 2.1 2.1 9.3	8.0 13.1 25.9 9.4 47.3 2.6 23.7 3.8	5 3 5 3 14 7 13 2
Automobile mechanics Driver-sales workers Traffic, shipping, and receiving clerks Supervisors, production occupations Bus, truck, and stationary engine mechanics Maids and housemen Plumbers, pipefitters, and steamfitters Health aides, exc. nursing Printing press operators Groundskeepers and gardeners, exc. farm Garage and service station related occupations	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	1.5 7.5 8.1 23.4 2.2 36.8 8.8 7.5 27.0 54.2 11.3	40.4 42.9 15.1 7.9 6.6 21.6 13.1 5.4 17.0 3.5 5.7	31.5 3.9 11.5 17.4 20.2 6.4 22.7 26.3 9.4 16.3 5.7	13.5 39.6 2.3 24.9 8.0 1.9 3.6 39.0 10.0 11.9 34.8	4.3 23.5 11.5 49.8 18.0 8.6 7.4 3.2 15.5	3.7 0.7 3.6 18.0 1.3 2.4 4.0	8.7 6.0 39.4 11.1 12.4 15.4 39.6 3.9 28.0 8.7 23.1	5 2 14 6 12 2 12

¹ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

SOURCE: Bureau of Labor Statistics, U. S. Department of Labor, Survey of Occupational Injuries and Illnesses in cooperation with participating State agencies.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

Table 9. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by selected injury or illness characteristics and number of days away from work, 1997

	·			Perce	ent of cases inv	olving			
Characteristic	Total cases	1 day	2 days	3 to 5 days	6 to 10 days	11 to 20 days	21 to 30 days	31 days or more	Median days away from work
Total [18,547 cases]	100.0	16.6	16.3	18.4	13.1	11.9	5.8	17.9	5
Nature of injury, illness:					,				_
Sprains, strains	100.0	14.4	16.0	17.9	15.5	12.3	7.6	16.4	6
Bruises, contusions	100.0	21.6	19.0	28.3	12.2	8.5	3.1	7.3	3
Cuts, lacerations	100.0	32.6	27.8	19.1	11.7	2.7	2.0	4.1	2
Fractures	100.0	5.6	12.5	15.5	12.2	13.0	7.7	33.4	14
Heat burns	100.0	16.8	10.7	22.9	15.5	10.4	19.4	4.4	5
Carpal tunnel syndrome	100.0	1.4	19.8	11.6	13.6	9.0	7.0	37.5	15
Tendonitis	100.0	15.6	31.0	17.8	13.3	5.3	8.3	8.7	3
Chemical burns	100.0	14.6	15.5	31.0		13.4	9.1	16.5	4
Amputations	100.0	6.7	2.7	22.6	16.7	20.9	6.2	24.2	15
Multiple injuries	100.0	27.3	8.1	16.9	15.6	10.7	•••	21.4	5
Part of body affected:]	i i				1			
Head	100.0	32.4	25.7	19.3	4.2	9.1	1.6	7.8	2
Eye	100.0	46.7	24.3	16.9	1.6	5.1	3.6	6.9	2
Neck	100.0	16.7	11.3	25.0	12.7	4.5	1.5	28.3	5
Trunk	100.0	11.9	14.8	19.8	18.1	13.5	4.7	17.1	7
Shoulder	100.0	8.7	10.6	19.0	15.7	17.8	8.7	19.5	9
Back	100.0	13.7	17.2	21.3	19.4	9.8	2.7	16.0	5
Upper extremities	100.0	18.4	20.1	19.7	11.7	8.1	3.7	18.3	4
Wrist	100.0	10.0	21.9	16.6	12.2	7.4	4.6	27.4	6
Hand, except finger	100.0	23.9	14.7	19.7	9.3	5.6	2.2	24.5	5
Finger	100.0	26.4	23.1	21.3	10.2	6.8	4.0	8.2	3
Lower extremities	100.0	14.8	13.0	14.5	9.7	13.4	12.6	21.9	8
Knee	100.0	5.2	9.2	13.2	7.3	16.4	19.1	29.5	20
Foot, except toe	100.0	20.0	21.5	18.0	2.9	21.6	5.2	10.8	3
Toe	100.0	16.8	25.2	35.7	12.3	3.9	1.4	4.6	3
Body systems	100.0	19.1	15.1	33.9	2.6	29.2			3
Multiple parts	100.0	21.8	10.1	16.4	13.1	14.6	2.9	21.2	. 7
See footnotes at end of table.		д		L					

Table 9. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by selected injury or illness characteristics and number of days away from work, 1997 -- Continued

		Percent of cases involving							
Characteristic	Total cases	1 day	2 days	3 to 5 days	6 to 10 days	11 to 20 days	21 to 30 days	31 days or more	Median days away from work
Source of injury, illness:									
Chemicals and chemical products	100.0	25.9	21.1	25.4	7.1	7.1	5.5	8.0	3
Containers	100.0	11.9	21.1	19.8	12.4	19.9	2.8		5
Furniture and fixtures	100.0	24.5	23.7	16.1	8.9	20.2	1.8	4.9	3
Machinery	100.0	24.4	19.4	11.6		10.8	5.8		3
Parts and materials	100.0	18.5	14.4	21.6	14.2	8.9	8.3		5
Worker motion or position	100.0	19.3	12.5	14.8		9.2	5.4	26.3	6
Floors, walkways, ground surfaces	100.0	9.9	17.7	15.9		14.2	3.9	22.8	8
Tools, instruments, and equipment	100.0	21.1	16.7	28.0	13.8	4.5	2.4	13.5	3
Vehicles	100.0	9.1	10.1	14.8		8.0	21.1	23.5	16
Health care patient	100.0	8.9	15.2	25.0		7.6	5.0	19.3	6
Event or exposure:				i					
Contact with objects and equipment	100.0	25.5	18.6	21.7	9.7	8.2	3.0	13.2	3
Struck by object	100.0	24.8	16.0	26.0		11.4	4.0	10.9	3
Struck against object	100.0	30.9	28.0	20.4	7.5	5.0	1.4	6.8	9
· Caught in equipment or object	100.0	12.9	9.6	16.0	17.9	9.2	4.8	29.6	9
Fall to lower level	100.0	8.5	8.9	11.7	15.1	13.5	14.7	27.6	17
Fall to same level	100.0	10.7	21.6	17.7	12.9	13.7	6.2	17.1	5
Slips, trips, loss of balancewithout fall	100.0	31.8	6.4	9.4	9.4	9.7	3.2	30.1	5
Overexertion	100.0	10.8	16.3	17.6	17.4	16.0	5.3	16.6	7
Overexertion in lifting	100.0	11.5	19.9	17.9	16.0	12.7	5.5	16.5	. 6
Repetitive motion	100.0	9.5	18.2	13.0	14.8	7.7	5.2	31.6	
Exposure to harmful substances	100.0	32.9	24.0	15.9	7.7	7.7 7.3	7.0	5.4	2
Transportation accidents	100.0	12.0	7.1	17.4	11.9	14.1	7.5	30.0	14
Fires and explosions	100.0		15.0	39.3	11.5	26.4	19.4	30.0	. 5
Assaults and violent acts by person	100.0	15.5	18.1	43.4	11.7	1.4	4.6	5.3	. 4

SOURCE: Bureau of Labor Statistics, U. S. Department of Labor, Survey of Occupational

k activity. Injuries and Illnesses in cooperation with participating State agencies.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

¹ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

Table 10. Percent distribution of nonfatal occupational injuries and illnesses involving days away from work' by industry division and number of days away from work, 1997 Kansas-private industry

	Percent of cases involving								
Characteristic	Total cases	1 day	2 days	3 to 5 days	6 to 10 days	11 to 20 days	21 to 30 days	31 days or more	Median days away from work
Private industry ² [18,547 cases]	100.0	16.6	16.3	18.4	13.1	11.9	5.8	17.9	5
Goods producing:									
Agriculture, forestry, and fishing 2	100.0	12.5	7.6	38.1	13.7	9.7	2.8	15.7	4
Mining ³	100.0	14.3	8.1	20.2	10.6	9.3	6.6	31.0	9
Construction	100.0	10.4	15.2	18.7	11.1	10.7	4.5	29.4	7
Manufacturing	100.0	21.3	15.0	15.9	13.1	12.9	4.6	17.2	5
Durable goods	100.0	22.1	14.8	16.3	14.8	11.1	4.0	16.9	4
Nondurable goods	100.0	20.2	15.3	15.5	10.9	15.2	5.3	17.6	5
Service producing:									
Transportation and public utilities ³	100.0	11.7	6.3	19.0	8.3	16.8	17.3	20.6	12
Wholesale trade	100.0	18.1	24.9		12.5		1		4
Retail trade	100.0	25.8	18.8	17.0			3.9		4
Finance, insurance, and real estate								,	
Services	100.0	11.9	16.8	23.1	16.7	7.9	6.0	17.5	5

Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

NOTE: Dashes indicate data that are not available. Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals.

Excludes farms with fewer than 11 employees.
 Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coat, metal, and nonmetal industries.

Appendices

Appendix A

SCOPE OF THE SURVEY AND TECHNICAL NOTES

Scope of the Survey

The occupational injury and illness data reported through the annual survey are based on records which employers in the following industries maintain under the Occupational Safety and Health Act: agriculture, forestry, and fishing (SIC 01-09); oil and gas extraction (SIC 13); construction (SIC 15-17); manufacturing (SIC 20-39); transportation and public utilities (SIC 41-49); wholesale and retail trade (SIC 50-59); finance, insurance, and real estate (SIC 60-67); and services (SIC 70-89). Excluded from the survey are self-employed individuals; private households; farmers with fewer than 11 employees; employers regulated by other federal safety and health laws; and federal, state, and local government agencies.

Data conforming to OSHA definitions of recordable occupational injuries and illnesses for coal and lignite mining (SIC 11 and 12), metal and nonmetal mining (SIC 10 and 14), and railroads (SIC 40) are provided by the Mine Safety and Health Administration, U.S. Department of Labor, and by the Federal Railroad Administration, U.S. Department of Transportation.

Survey questionnaires were mailed to 3,652 sample units within the state. Approximately twelve percent of these were excluded from the final tabulation because they were no longer in operation, were not within the scope of the survey, were included in the report for another location, received duplicate survey forms for the same location, or were not mailable because of an inadequate address. Follow-up mailings and telephone calls to nonrespondents resulted in an overall usable response rate of 88 percent.

Survey Questionnaire

The survey questionnaire requested information concerning the average employment during the calendar year; total hours worked; the number of occupational illnesses by type (seven categories); the total occupational injuries and illnesses by type, i.e., fatalities, and nonfatal cases with and without lost workdays; the number of days away from work and days of restricted work activity; and case and demographic data for lost workday cases. See Appendix D for a sample of the survey form and instructions.

Federal grant arrangements specify that the respondent fill out a single report form. The data are then used to develop both state and national estimates. This elimination of duplicate reporting by respondents, in conjunction with the use of identical statistical techniques at the state and national levels, ensures maximum comparability of estimates.

Sample Design

The basic sample was selected by the Bureau of Labor Statistics to represent all non-government industries in Kansas and to produce estimates of the number of occurrences and incidence rates of occupational injuries and illnesses for the state. The universe was stratified into industries according to the 1987 edition of the <u>Standard Industrial Classification Manual</u> published by the Office of Management and Budget.

A sample size necessary to produce a certain level of precision in the estimates of incidence rates was then determined for each industry. Previous surveys conducted by the U.S. Department of Labor, Bureau of Labor Statistics, have given an indication of the variability of incidence rates within certain groups of industries. Using these measures of variability, the number of establishments in the industry, and the employment in large establishments, a sample size was then calculated for each industry. The number of employees in large establishments was used as a control on the sample size. When industries are dominated by a few large establishments, smaller samples are required if the large establishments are included in the sample with certainty. Industries with higher expected incidence rates displayed more variability and, therefore, were allotted a proportionately larger sample than industries with lower rates.

Within an industry it was known that the number of injuries and illnesses an establishment experiences will vary with the employment of the establishment. Because of this, the universe of establishments within an industry was stratified by employment and then an optimum allocation was achieved by distributing the sample to each size group proportionate to the total employment in the size group. This procedure assumes that the variance of the average number of injuries and illnesses per establishment in a size group is proportionate to the average establishment employment size group. Sample sizes were then adjusted to produce integral sampling ratios.

Estimating Procedures

By using a weighting procedure, units in the sample are made to represent all units in their size class for a particular industry. The inverse of the sampling ratio for the industry/employment-size class from which the unit was selected determines the weight. Weights of responding employers in a sampling cell are adjusted for the small proportion of survey forms not returned. Respondents are then shifted into the estimating cell determined by the employment and business activity report. Data for each unit are multiplied by the appropriate weight and nonresponse adjustment factor. The products are then aggregated to obtain a total for the estimating cell.

Since the universe file which provides the sample frame is not current to the reference year of the survey, data are adjusted to reflect current employment levels. In the annual survey, all estimates of totals are adjusted by the benchmark factor at the estimating cell level. The benchmarking procedure requires a source of accurate employment data which can be converted into annual average employment figures for separate estimates at the cell level.

Federal-State Cooperation

To eliminate duplicate reporting by respondents and ensure maximum comparability of estimates, survey respondents complete a single report form for national and state estimates.

Industrial Classification

Reporting units are classified into industries by their principal product or activity. The data are tabulated according to the 1987 edition of the <u>Standard Industrial Classification Manual</u>.

Appendix B

INSTRUCTIONS FOR COMPUTING INCIDENCE RATES FOR AN INDIVIDUAL FIRM

Incidence rates for an individual establishment or firm may be calculated by employers by using the same formula that is used to calculate industry-wide incidence rates from the annual occupational injury and illness survey. Employers may then compare their work injury and illness rates to state and national rates for their industry.

The formula requires: (1) the number of injuries and illnesses, and (2) the number of hours actually worked by all employees during the reference period. To produce an overall incidence rate proceed by determining the following:

- The number of recordable occupational injuries and illnesses. This may be done by adding the totals for columns 1, 2, 6, 8, 9, and 13 of The Occupational injuries and Illnesses Log (OSHA NO. 200).
- The total number of hours actually worked during the year by all employees from payroll or other time records. The hours worked figure should not include any nonwork time even though paid, such as vacations, sick leave, holidays, etc. (If actual hours worked are not available for employees paid on commission, by salary, by the mile, etc., hours worked may be estimated on the basis of scheduled hours or eight hours per workday.)

The formula for computing the incidence rate is as follows:

- (1) Number of injuries and illnesses X 200,000 _ Incidence Rate
- (2) Employee hours worked

This rate represents the number of injuries and illnesses occurring per 200,000 hours of work exposure, or the rate per 100 full-time equivalent workers. The same base is used in computing the occupational injury and illness rates for Kansas and the nation.

An employer may compute rates for injuries, illnesses, lost workday cases, nonfatal cases without lost workdays, or the number of lost workdays. Simply replace the number of injuries and illnesses, (1) in the formula, with the measure for which the rate is being computed.

It is also possible to compute rates on a monthly, quarterly, or semi-annual basis, or even by department or any other grouping of employees. The formula remains the same except the constant now would be 16,667 for a monthly calculation, 50,000 for a quarterly calculation, or 100,000 for a semi-annual calculation. The number of cases or days in the numerator and the hours worked in the denominator would be for the same time frame as the constant.

Appendix C

GLOSSARY

Average Employment: The average number of full- and part-time employees who worked during the report period. This includes all classes of employees (e.g., administrative, seasonal, temporary, supervisory, clerical, professional, technical, sales, delivery, installation, construction, service personnel, as well as operating and related workers).

Establishment: A single physical location where business is conducted or where services or industrial operations are performed (e.g., factory, mill, store, hotel, restaurant, movie theater, farm, ranch, bank, sales office, warehouse, or central administrative office). For firms engaged in activities which may be physically dispersed such as construction, transportation, communication, and electric, gas, and sanitary services, records may be maintained at the place to which employees normally report each day. For personnel who do not primarily report or work at a single establishment, such as traveling salesmen, technicians, engineers, their establishment would be at the location from which they are paid or the base from which these personnel operate to carry out their activities.

First Aid Treatment: One-time treatment and subsequent observation of minor scratches, cuts, burns, splinters, and so forth, which do not ordinarily require medical care.

Hours Worked: Total hours worked by all employees. Includes all time on duty, but excludes vacation, holiday, sick leave, and all other nonwork time even though paid.

Incidence Rate: Number of injuries and/or illnesses, or lost workdays per 100 full-time workers. The rate is calculated as:

(N/EH) X 200,000

where:

N

= number of injuries and/or illnesses, or lost

workdays

EH

= Total hours worked by all employees during

the calendar year

200,000

= base for 100 full-time equivalent workers (working 40 hours per

week, 50 weeks per year)

Lost Workday Cases: Cases which involve days away from work or days of restricted activity, or both.

Lost Workdays: The number of workdays (consecutive or not), beyond the day of injury or onset of illness, the employee was away from work or limited to restricted work activity because of an occupational injury or illness.

- (2) Lost workdays, away from work: The number of workdays (consecutive or not) on which the employee would have worked but could not because of an occupational injury or illness.
- (3) Lost Workdays, restricted work activity: The number of workdays (consecutive or not) on which, because of an injury or illness the employee:
 - (a) was assigned to another job on a temporary basis,
 - (b) worked at a permanent job less than full-time
 - (c) worked at a permanently assigned job but could not perform all duties normally connected with it.

Low-Hazard Industries: Selected industries in retail trade; finance, insurance, and real estate; and services which are regularly exempt from OSHA recordkeeping. To be included in this exemption, an industry must fall within an SIC not targeted for general schedule inspections and must have an average lost workday case injury rate for a designated three-year measurement period at or below 75.0 percent of the U.S. private sector average rate.

Medical Treatment: Treatment (other than first aid) administered by a physician or registered professional personnel under the standing orders of a physician. Medical treatment does not include first aid treatment even though provided by a physician or registered professional personnel.

Nonfatal Case Without Lost Workdays: Any recordable occupational injury or illness case which does not involve a fatality or lost workdays.

Occupational Illness: Any abnormal condition or disorder, other than one resulting from an occupational injury, caused by exposure to environmental factors associated with employment.

Occupational Injury: Any injury such as a cut, fracture, sprain, amputation, etc., which results from a work accident or from an exposure involving a single incident in the work environment.

Recordable Occupational Injuries and Illnesses: Any case which may be categorized in one the following classes is recordable:

- (1) occupational deaths, regardless of the time between injury, or length of illness, and death;
- (2) occupational illnesses; or
- (3) occupational injuries which involve one or more of the following: loss of consciousness, restriction of work or motion, transfer to another job, or medical treatment (other than first aid).

Standard Industrial Classification (SIC): A classification system developed by the Office of Statistical Standards, Executive Office of the President/Office of Management and Budget, for use in the classification of establishments by type of activity in which engaged. Each establishment is assigned an industry code for its major activity which is determined by the product or group of products or services rendered. Establishments may be classified as 2-digit, 3-digit, or 4-digit industries, according to the degree of information available.

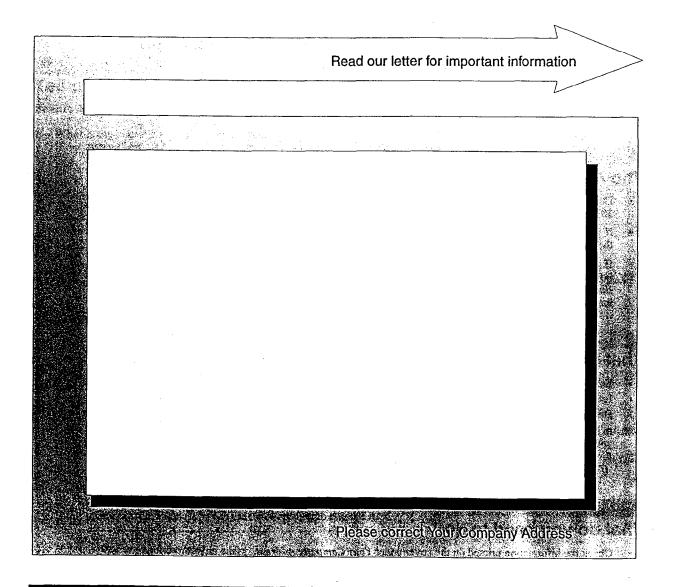
Work Environment: The physical location, equipment, materials processed or used, and the kinds of operations performed by an employee in the performance of his/her work, whether on or off the employer's premises.

Appendix D

Survey of Occupational Injuries and Illnesses, 1997



U.S. Department of Labor Bureau of Labor Statistics





We stimute that it will take in severage of 1 hour to complete this survey (ranging from 30 minutes to a nours per nackage) including time for reviewing instructions. Searching existing data sources, gathering and maluranting the data needed, and completing and reviewing this animation. If you have any comments recarding these estimates of any other is peed of this survey, hielding surgestions for requiring this burdent please tend them to the burdent of Labor Statistics. Occupational Safety and Health Statistics (1220-10045) 20 Massachtiscus Avenue, N.E. Washington, D.C. 2021 2. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control withher DO NOV SERVICE THE ACCOUNT OF THE ACCOUNT OF THE STATE OF T

Part 1: Summary of 1997 Occupational Injuries and Illnesses

All establishments must complete this part of the survey, even if there were no occupational injuries and illnesses during 1997. This form tells us about the number of employees in your establishment and the number of hours they worked. It also gives us a summary of any occupational injuries and illnesses that did occur during 1997.

If you have already provided the Occupational Safety and Health Administration (OSHA) with this information, you may attach a copy of their form instead of completing Part 1. If you choose to attach the OSHA form, go to What's Next.

To answer the questions below, you'll need

- information about employment and hours worked from your payroll, and
- your completed copy of the 1997 Log and Summary of Occupational Injuries and Illnesses (OSHA No. 200).

Tell us about your establishment's employees and the hours they worked

Be sure the information you supply refers only to the establishment(s) noted on the cover under Reporting Site.

1. What is the average number of employees who worked for your establishment during 1997? If this number isn't available, you can estimate it this way:

Employment average

- Add together the number of employees your establishment paid in every pay period during 1997. Include all employees: full-time, part-time, temporary, seasonal, salaried, and hourly.
- Divide that answer by the number of pay periods your establishment had in 1997. Be sure to include any pay periods when you had no employees.
- Round the answer to the next highest whole number. Write the rounded number in the blank marked Employment average.

A	xample ome Construction pay ar. During 1997,	s its employees 26 t	imes	each
	in this pay period	Acme paid this ma	ny e	mployees
	1		10	
	2		0	
	3		15	
	4		30	
	5		40	
	1		1	
	24		20	
	25		15	
			10	
		-	830	(sum)

Because Acme has 26 pay periods, it would divide its sum by 26.

830 divided by 26 = 31.92

Acme would round 31.92 to 32 and write that number in the blank marked *Employment average*.

2. How many hours did your employees (salaried as well as hourly employees) actually work during 1997?

Do not include vacation, sick leave, holidays, or any other non-work time, even if employees were paid for it. If your establishment keeps records of only the hours paid or if you have employees who are not paid by the hour, please estimate the hours that the employees actually worked.

If this number isn't available, you can use this worksheet to estimate it.

Optional Worksheet							
	Find the number of full-time employees in your establishment for 1997.						
x ———	Multiply by the number of work hours for a full-time employee in a year.						
	This is the number of full-time hours worked.						
+	Add the number of any overtime hours as well as the hours worked by other employees (part-time, temporary, seasonal).						
	Round the answer to the next highest whole number. Write the rounded number in the blank marked <i>Total hours worked</i> .						

Total hours worked

3.	Put an X in the box next to all the Nothing unusual happe Strike or lockout Shutdown or layoff Seasonal work	_	Natural disaste Shorter work	ted your answer or or adverse we schedules or few schedules or mo	ather conditions er pay periods t	ihan usual			
4.	Did you have ANY occupati Yes. Go to the next se No. Go to Sign This	ction, Tell us ab	out the injuries		during 1997.				
	ell us about the in	•			_				
***	 Go to your completed 19 Look at the total line on Copy the 1997 totals fromoted on the front cover to get the 1997 totals for 	97 <i>Log and Su</i> the last page. m your OSHA under <i>Reportin</i>	mmary of Occ No. 200 form ag Site, add to	cupational Injuinto the colur	uries and Illn nns below. If al lines from a	more than on	e establishme	ent is	
	Total Injuries								
	Copy these totals from columns (1) – (6):	Deaths as a result of injury (column 1)	Injuries with days away from work, or restricted workdays or both (column 2)	Injuries with days away from work (column 3)	Total days away from work (column 4)	Total days of restricted work activity (column 5)	Injuries without lost workdays (column 6)		
	Total Types of Illnesses					AND THE PROPERTY OF THE PROPERTY OF	and the second second		
	Copy these totals from columns (7a) – (7g):	Skin diseases or disorders (column 7a)	Dust diseases of the lungs (column 7b)	Respiratory conditions due to toxic agents (column 7c)	Poisoning (column 7d)	Disorders due to physical agents (column 7e)	Disorders associated with repeated trauma (column 7f)	Other occupational illnesses (column 7g)	
	Total Illnesses	111886488888888888888888888888888888888	antrianan menengantan trasilian			scoonsepsympogogogogogogogogogogogogogogogogogogog	a centre transcribitation and and		
	Copy these totals from columns (8) – (13):	Deaths as a result of illness (column 8)	Illnesses with days away from work, or restricted workdays or both (column 9)	Illnesses with days away from work (column 10)	Total days away from work (column 11)	Total days of restricted work activity (column 12)	Illnesses without lost workdays (column 13)		

What's next

Look at the totals you copied into columns (3) and (10) above (look for the bold lines).

- If you had NO cases in both columns (3) and (10), you are finished with the survey. Go to Sign This Form on the back cover.
- If you HAD cases in either column (3) or column (10), go to Part 2: Reporting Cases with Days Away from Work.

C	case with Days Away from Work				Ĺ			
Te ou	Tell us about a 1997 occupational injury or illness only if it resulted in days away from work. To find out which cases you should report, read the instructions at the beginning of Part 2: Reporting Cases with Days Away from Work. We will keep all information that you give us confidential.							
	Tell us about the case to your completed OSHA No. 200 form. Copy the case informa	ation fro	om that fo	rm into the columns b	elow.			
		Inj	jury	CARCADO COMO DE LA COM	Illness	CONTRACTOR OF		
	Employee's last name, first initial (column B)	fror	/s away n work lumn 4)	Days of restricted work activity (column 5)	Days away from work (column 11)	Days of restricted work activity (column 12)		
m	/ / 97 onth day year							
11,	as a result of the injury or illness, the employee did NOT return to Still recovering; approximate return date / / 199 month day year Other, examples: retired, resigned, permanently (total) disables.	8	any capa	icity in 1997, tell us w	vny.			
	ell us about the employee	E .		bout the incide		•		
	ease answer the questions below.			questions below or atta at answers them.	ach a copy of a s	upplementary		
1.	Employee's approximate length of service at this establishment when the incident occurred (optional) Less than 3 months From 3 to 11 months From 1 to 5 years More than 5 years	6.	Tell us at employee carrying i	as the employee doing yout the activity as well was using. Be specificofing materials"; "spi mputer key-entry."	l as the tools, equi c. Examples: "cl	pment, or material th imbing a ladder while		
2.	Employee's race or ethnic background (optional) White, not of Hispanic origin Black, not of Hispanic origin Hispanic Asian or Pacific Islander American Indian, Aleut, or Eskimo	7.	Example "Worker	ppened? Tell us how s: "When ladder slippe was sprayed with chlorent"; "Worker developed."	d on wet floor, we rine when gasket l	orker fell 20 feet"; broke during		
	ou may either answer the next questions or attach a copy of supplementary document that answers them.	8.	What wa	as the injury or illness	? Tell us the part	of the body that		
3.	Employee's ageOR date of birth/		ecific than "hurt," hemical burn, hand";					
4.	Employee's sex Male Female			is, elbow"; "carpal tunr iject or substance dire		emplovee?		
5.	Employee's occupation Be specific and describe the occupation. Do not use a general term such as "maintenance". Examples: "auto mechanic"; "janitor."	у.	Example	se: "concrete floor"; "cl does not apply to the in	nlorine"; "radial a	rm saw." If this		

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Sign This Form

Fill in the name, title, and phone number of the person we should call with questions about the survey. Then date and sign the form.

Printed name	() Telephone number	Ext.	Today's date
Title	Signature		

Use the return envelope to send us the entire package — everything that we sent you — within 30 days of the date your establishment received it. If the return envelope is missing, send the entire package to the return address on the front cover (look for *Address for Return Envelope*).

If You Need Help...

If you have any questions or if you need help completing the survey, call the phone number that is listed below for your State. The phone number may be for an office outside of your State, but they will be able to help you. If you prefer to write, send your letter to the return address on the front of this package.

Alabama (334) 242-3460

Alaska (907) 465-6034

Arizona (602) 542-3739

Arkansas (501) 682-4542

California (415) 972-8641

Colorado (816) 426-4599

Connecticut (860) 566-4380

Delaware (302) 761-8223, 8221

District of Columbia

Florida (850) 922-8953 or (800) 219-8953 in FL

Georgia (404) 656-2966

Guam (671) 475-0168

Hawaii (808) 586-9001

I - M

Idaho (415) 975-4473

Illinois (312) 353-7253

Indiana (317) 232-2682

Iowa (515) 281-3661

Kansas (785) 296-5642

Kentucky (502) 564-3070 ext. 276, 277, 279

Louisiana (504) 342-3126

Maine (207) 624-6444

Maryland (410) 767-2373

Massachusetts (617) 727-3593

Michigan (517) 322-1848

Minnesota (612) 297-7428

Mississippi (404) 562-2518

Missouri (573) 751-2663

Montana (800) 541-3904

N - R

Nebraska (402) 471-3547

Nevada (702) 687-3298

New Hampshire (617) 565-2302

New Jersey (609) 292-8999 (609) 633-0618 fax

New Mexico (505) 827-4230

New York (212) 352-6690

North Carolina (919) 733-2758

North Dakota (816) 426-4599

Ohio (312) 353-7253

Oklahoma (405) 528-1500 ext.257

Oregon (503) 378-8254

Pennsylvania (215) 596-1162

Puerto Rico (787) 754-5737, -5343 or (787) 765-4687 fax

Rhode Island (401) 277-3704

S-W

South Carolina (803) 734-9653

South Dakota (816) 426-4599

Tennessee (615) 741-1748

Texas (512) 440-3852 (512) 707-5878 fax

Utah (801) 530-6881, -6823 (801) 536-7906 fax

Vermont (802) 828-5076

Virgin Islands (809) 776-3700 ext. 2040

Virginia (804) 786-8011

Washington (360) 902-5640

West Virginia (215) 596-1162

Wisconsin (800) 884-1273

Wyoming (816) 426-4599

Recordkeeping Summary

Basic recordkeeping concepts and guidelines are included with instructions on the back of form OSHA No. 200. The following summarizes the major recordkeeping concepts and provides additional information to aid in keeping records accurately.

General concepts of recordability

- 1. An injury or illness is considered work related if it results from an event of exposure in the work environment. The work environment is primarily composed of: (1) The employer's premises, and (2) other locations where employees are engaged in work-related activities or are present as a condition of their employment. When an employee is off the employer's premises, work relationship must be established; when on the premises, this relationship is presumed. The employer's premises encompass the total establishment. This includes not only the primary facility, but also such areas as company storage facilities, cafeterias, and restrooms. In addition to physical locations, equipment or materials used in the course of an employee's work are also considered part of the employee's work environment.
 - 2. All work-related fatalities are recordable.
- 3. All recognized or diagnosed work-related illnesses are recordable.
- 4. All work-related injuries requiring medical treatment or involving loss of consciousness, restriction of work or motion, or transfer to another job are recordable.

Analysis of injuries

Recordable and nonrecordable injuries. Each case is distinguished by the treatment provided; i.e., if the injury was such that medical treatment was provided or should have been provided, it is recordable; if only first aid was required, it is not recordable. However, medical treatment is only one of several criteria for determining recordability. Regardless of treatment, if the injury involved loss of consciousness, restriction of work or motion, or transfer to another job, the injury is recordable.

Medical treatment. The following procedures are generally considered medical treatment. Injuries for which this type of treatment was provided or should have been provided are almost always recordable if the injury is work related:

- Treatment of INFECTION
- Application of ANTISEPTICS during second or subsequent visit to medical personnel
- Treatment of SECOND OR THIRD DEGREE BURN(S)
- Application of SUTURES (stitches)
- Application of BUTTERFLY ADHESIVE DRESSING(S) or STERI STRIP(S) in lieu of sutures
- Removal of FOREIGN BODIES EMBEDDED IN EYE
- Removal of FOREIGN BODIES FROM WOUND; if procedure is COMPLICATED because of depth of embedment, size, or location
- Use of PRESCRIPTION MEDICATIONS (except a single dose administered on first visit for minor injury or discomfort)
- Use of hot or cold SOAKING THERAPY during second or subsequent visit to medical personnel
- Application of hot or cold COMPRESS(ES) during second or subsequent visit to medical personnel
- CUTTING AWAY DEAD SKIN (surgical debridement)
- Application of HEAT THERAPY during second or subsequent visit to medical personnel
- Use of WHIRLPOOL BATH THERAPY during second or

- POSITIVE X-RAY DIAGNOSIS (fractures, broken bones, etc.)
- ADMISSION TO A HOSPITAL or equivalent medical facility FOR TREATMENT.

First aid treatment. The following procedures are generally considered first aid treatment (e.g., one-time treatment and subsequent observation of minor injuries) and should not be recorded if the work-related injury does not involve loss of consciousness, restriction of work or motion, or transfer to another job:

- Application of ANTISEPTICS during first visit to medical personnel
- Treatment of FIRST DEGREE BURNS(S)
- Application of BANDAGES(S) during first visit to medical personnel
- Use of ELASTIC BANDAGES(S) during first visit to medical personnel
- Removal of FOREIGN BODIES NOT EMBEDDED IN EYE if only irrigation ir required
- Removal of FOREIGN BODIES FROM WOUND; if procedure is UNCOMPLICATED, and is, for example, by tweezers or other simple technique
- Use of NONPRESCRIPTION MEDICATIONS AND administration of single dose of PRESCRIPTION MEDICATION on first visit for minor injury or discomfort
- SOAKING THERAPY on initial visit to medical personnel or removal of bandages by SOAKING
- Application of hot or cold COMPRESS(ES) during first visit to medical personnel
- Application of OINTMENTS to abrasions to prevent drying or cracking
- Use of WHIRLPOOL BATH THERAPY during first visit to medical personnel
- NEGATIVE X-RAY DIAGNOSIS
- OBSERVATION of injury during visit to medical personnel.

The following procedure, by itself, is not considered medical treatment:

Administration of TETANUS SHOT(S) or BOOSTERS(S).
 However, these shots are often given in conjunction with more serious injuries; consequently, injuries requiring these shots may be recordable for other reasons.

Reminder: Work-related injuries requiring only first aid treatment and that do not involve any of the conditions in item 4 above, are not recordable.

This Report Was Prepared by:

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